

# AC v9.0 EP Curriculum Map

## Y5-10 Maths



### Year 5

### Number

Content Descriptor/s	EP Lessons in <i>1. Number and Place Value</i>	
<p>AC9M5N01 interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line</p> <p>AC9M5N02 express natural numbers as products of their factors, recognise multiples and determine if one number is divisible by another</p> <p>AC9M5N06 solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing efficient calculation strategies and using digital tools where appropriate; check the reasonableness of answers</p> <p>AC9M5N07 solve problems involving division, choosing efficient strategies and using digital tools where appropriate; interpret any remainder according to the context and express results as a whole number, decimal or fraction</p> <p>AC9M5N08 check and explain the reasonableness of solutions to problems including financial contexts using estimation strategies appropriate to the context</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">What is a Number?</a></li> <li>• <a href="#">Counting</a></li> <li>• <a href="#">Place Values</a></li> <li>• <a href="#">Numbers in Written Form</a></li> <li>• <a href="#">Expanding Numbers</a></li> <li>• <a href="#">Odd and Even Numbers</a></li> <li>• <a href="#">Multi Digit Odd and Even Numbers</a></li> <li>• <a href="#">Addition</a></li> <li>• <a href="#">Subtraction</a></li> <li>• <a href="#">The Subtraction Algorithm</a></li> <li>• <a href="#">Multiplication</a></li> <li>• <a href="#">Area Models</a></li> </ul> <p><i>2. Factors and Multiples</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Multiplication Using Place Value</a></li> <li>• <a href="#">Multiplying Big Numbers</a></li> <li>• <a href="#">Multiples</a></li> <li>• <a href="#">Applications of Multiples</a></li> <li>• <a href="#">Division in Parts</a></li> <li>• <a href="#">Factors</a></li> <li>• <a href="#">Identifying Factors</a></li> </ul> <p><i>3. Number Lines</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Number Lines</a></li> <li>• <a href="#">Subtracting with Number Lines</a></li> </ul>	<p><i>3. Rounding and Estimation</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Rounding</a></li> <li>• <a href="#">Leading Digit Approximation</a></li> </ul> <p><i>4. Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Number and Place Value</a></li> <li>• <a href="#">Definitions MCQ: Number and Place Value</a></li> <li>• <a href="#">Spelling List: Number and Place Value</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y5 Number and Place Value</a></li> <li>• <a href="#">Y5 Number and Place Value</a></li> </ul>

Content Descriptor/s	EP Lessons in 2. Fractions and Decimals	
<p>AC9M3N02 recognise and represent unit fractions and their multiples in different ways; combine fractions with the same denominator to complete the whole</p> <p>AC9M5N03 compare and order fractions with the same and related denominators including mixed numerals, applying knowledge of factors and multiples; represent these fractions on a number line</p> <p>AC9M5N05 solve problems involving addition and subtraction of fractions with the same or related denominators, using different strategies</p> <p>AC9M5N08 check and explain the reasonableness of solutions to problems including financial contexts using estimation strategies appropriate to the context</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Half</a></li> <li>● <a href="#">Quarters and Eighths</a></li> <li>● <a href="#">Using Fractions</a></li> </ul> <p><b>2. Fractions</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Fractions</a></li> <li>● <a href="#">Adding Mixed Numbers with the Same Denominator</a></li> <li>● <a href="#">Subtracting Fractions from One Whole</a></li> <li>● <a href="#">Subtracting Fractions from Whole Numbers</a></li> <li>● <a href="#">Fraction Word Problems</a></li> <li>● <a href="#">Unit Fractions</a></li> <li>● <a href="#">Fractions on a Number Line</a></li> <li>● <a href="#">Proper and Improper Fractions</a></li> <li>● <a href="#">Mixed Numbers</a></li> <li>● <a href="#">Converting Mixed Numbers</a></li> <li>● <a href="#">Adding Fractions with the Same Denominator</a></li> <li>● <a href="#">Subtracting Fractions with the Same Denominator</a></li> <li>● <a href="#">Adding Whole Numbers and Fractions</a></li> </ul> <p><b>3. Decimals</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Introduction to Decimals</a></li> <li>● <a href="#">Tenths</a></li> <li>● <a href="#">Hundredths</a></li> <li>● <a href="#">Thousandths and Beyond</a></li> <li>● <a href="#">Comparing Decimals</a></li> <li>● <a href="#">Rounding Decimal Numbers</a></li> </ul>	<p><b>4. Online Worksheets</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Unit Fractions Practice</a></li> <li>● <a href="#">Adding Mixed Numbers with the Same Denominator Practice</a></li> <li>● <a href="#">Adding Whole Numbers and Fractions Practice</a></li> <li>● <a href="#">Fraction Word Problems Practice</a></li> <li>● <a href="#">Subtracting Fractions from One Whole Practice</a></li> <li>● <a href="#">Subtracting Fractions from Whole Numbers Practice</a></li> <li>● <a href="#">Subtracting Fractions with the Same Denominator Practice</a></li> <li>● <a href="#">Comparing Decimals Practice</a></li> <li>● <a href="#">Introduction to Decimals Practice</a></li> <li>● <a href="#">Hundredths Practice</a></li> <li>● <a href="#">Thousandths and Beyond Practice</a></li> <li>● <a href="#">Tenths Practice</a></li> <li>● <a href="#">Converting Mixed Numbers Practice</a></li> <li>● <a href="#">Fractions on a Number Line Practice</a></li> <li>● <a href="#">Fractions Practice</a></li> <li>● <a href="#">Mixed Numbers Practice</a></li> <li>● <a href="#">Proper and Improper Fractions Practice</a></li> <li>● <a href="#">Adding Fractions with the Same Denominator Practice</a></li> </ul> <p><b>5. Further Resources</b></p> <ul style="list-style-type: none"> <li>● Spelling and Definitions</li> <li>● <a href="#">Definitions List: Fractions and Decimals</a></li> <li>● <a href="#">Definitions MCQ: Fractions and Decimals</a></li> <li>● <a href="#">Spelling List: Fractions and Decimals</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>● <a href="#">Decimals</a></li> <li>● <a href="#">Fractions</a></li> </ul>

Content Descriptor/s	EP Lessons in 3. Financial Contexts	
<p>AC9M5N09 use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate the problems, choosing operations and efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Australian Money</a></li> <li>• <a href="#">International Money</a></li> <li>• <a href="#">Converting Between Dollars and Cents</a></li> <li>• <a href="#">Count the Change</a></li> <li>• <a href="#">Calculating Change</a></li> <li>• <a href="#">Shopping</a></li> </ul> <p>2. <i>Financial Mathematics</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Budgets</a></li> <li>• <a href="#">Making a Budget</a></li> <li>• <a href="#">GST</a></li> </ul> <p>3. <i>Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Budgeting Practice</a></li> <li>• <a href="#">Making a Budget Practice</a></li> <li>• <a href="#">GST Practice</a></li> </ul>	<p>4. <i>Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Money and Financial Mathematics</a></li> <li>• <a href="#">Definitions MCQ: Money and Financial Mathematics</a></li> <li>• <a href="#">Spelling List: Money and Financial Mathematics</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Money and Financial Mathematics</a></li> </ul>

## Algebra

Content Descriptor/s	EP Lessons in 2. Algebra	
<p>AC9M5N10 create and use algorithms involving a sequence of steps and decisions and digital tools to experiment with factors, multiples and divisibility; identify, interpret and describe emerging patterns</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Number Lines</a></li> <li>• <a href="#">Addition</a></li> <li>• <a href="#">Subtraction</a></li> <li>• <a href="#">Skip Counting Up</a></li> <li>• <a href="#">Skip Counting Down</a></li> <li>• <a href="#">Number Patterns</a></li> <li>• <a href="#">Patterns with Objects</a></li> </ul> <p>2. <i>Number Patterns</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Number Patterns</a></li> <li>• <a href="#">Identifying Patterns</a></li> <li>• <a href="#">Describing Patterns</a></li> <li>• <a href="#">Missing Pieces of Patterns</a></li> <li>• <a href="#">Continuing Patterns</a></li> <li>• <a href="#">Gaps in Number Sentences</a></li> <li>• <a href="#">Equivalent Number Sentences</a></li> </ul>	<p>3. <i>Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Identifying Patterns Practice</a></li> <li>• <a href="#">Describing Patterns Practice</a></li> <li>• <a href="#">Missing Pieces of Patterns Practice</a></li> <li>• <a href="#">Continuing Patterns Practice</a></li> <li>• <a href="#">Gaps in Number Sentences Practice</a></li> <li>• <a href="#">Equivalent Number Sentences Practice</a></li> </ul> <p>4. <i>Further Resources</i></p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Patterns Found in Nature (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Patterns</a></li> </ul>

# Measurement

Content Descriptor/s	EP Lessons in 1. Measurement	
<p>AC9M5M01 choose appropriate metric units when measuring the length, mass and capacity of objects; use smaller units or a combination of units to obtain a more accurate measure</p> <p>AC9M5M02 solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Rectangles</a></li> <li>• <a href="#">Triangles</a></li> <li>• <a href="#">The Metric System</a></li> <li>• <a href="#">Units of Measurement</a></li> <li>• <a href="#">Comparing Lengths and Objects</a></li> <li>• <a href="#">Area</a></li> <li>• <a href="#">Area Models for Multiplication</a></li> </ul> <p><i>2. Units of Measurement</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement</a></li> <li>• <a href="#">Unit Prefixes</a></li> <li>• <a href="#">Units of Length</a></li> <li>• <a href="#">Units of Area</a></li> <li>• <a href="#">Hectares</a></li> <li>• <a href="#">The Metric System</a></li> <li>• <a href="#">Net Mass and Gross Mass</a></li> <li>• <a href="#">Estimating Measurements</a></li> </ul> <p><i>3. Perimeter and Area</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Perimeter</a></li> <li>• <a href="#">Perimeter</a></li> <li>• <a href="#">Calculating Perimeters</a></li> <li>• <a href="#">Calculating the Perimeter of a Shape with an Unknown Side</a></li> <li>• <a href="#">Perimeter of Composite Shapes</a></li> <li>• <a href="#">Finding the Unknown Side of a Composite Shape</a></li> <li>• <a href="#">Area of Rectangles</a></li> </ul>	<p><i>4. Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement Practice</a></li> <li>• <a href="#">Unit Prefixes Practice</a></li> <li>• <a href="#">Units of Length Practice</a></li> <li>• <a href="#">Net Mass and Gross Mass Practice</a></li> <li>• <a href="#">Perimeter Practice</a></li> <li>• <a href="#">Finding Perimeter Practice</a></li> <li>• <a href="#">Calculating Perimeter Practice</a></li> <li>• <a href="#">Perimeter of Composite Shapes Practice</a></li> <li>• <a href="#">Area Practice</a></li> <li>• <a href="#">Area of Rectangles Practice</a></li> <li>• <a href="#">Hectare Practice</a></li> </ul> <p><i>5. Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Units of Measurement</a></li> <li>• <a href="#">Definitions MCQ: Using Units of Measurement</a></li> <li>• <a href="#">Spelling List: Using Units of Measurement</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement</a></li> <li>• <a href="#">Perimeter</a></li> </ul>

Content Descriptor/s	EP Lessons in <b>2. Time</b>	
<p>AC9M5M03 compare 12- and 24-hour time systems and solve practical problems involving the conversion between them</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Days, Months, Seasons</a></li> <li>• <a href="#">Language of Time</a></li> <li>• <a href="#">Splitting Up Time</a></li> </ul> <p><b>2. Time</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Duration</a></li> <li>• <a href="#">Recording Time</a></li> <li>• <a href="#">Introduction to Analog Clocks</a></li> <li>• <a href="#">Reading Analog Clocks</a></li> <li>• <a href="#">Digital Clocks Practice</a></li> <li>• <a href="#">24-Hour Time Practice</a></li> <li>• <a href="#">Converting 12- and 24-Hour Time Practice</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">12-Hour Time</a></li> <li>• <a href="#">24-Hour Time</a></li> <li>• <a href="#">Converting 12- and 24-Hour Time</a></li> </ul> <p><b>3. Online Worksheets</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Duration Practice</a></li> <li>• <a href="#">Recording Time Practice</a></li> <li>• <a href="#">Reading Analog Clocks Basics Practice</a></li> <li>• <a href="#">Analog Clocks to the Nearest Minute Practice</a></li> </ul> <p><b>4. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Time</a></li> <li>• <a href="#">Definitions MCQ: Time</a></li> <li>• <a href="#">Spelling List: Time</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Clocks</a></li> </ul>
Content Descriptor/s	EP Lessons in <b>3. Angles</b>	
<p>AC9M5M04 estimate, construct and measure angles in degrees, using appropriate tools including a protractor, and relate these measures to angle names</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles: Amount of Turn</a></li> </ul> <p><b>2. Angles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles</a></li> <li>• <a href="#">Angles in the Real World</a></li> <li>• <a href="#">Right Angles</a></li> <li>• <a href="#">Types of Angles</a></li> <li>• <a href="#">Other Common Angles</a></li> <li>• <a href="#">Estimating the Size of Angles</a></li> <li>• <a href="#">Measuring Acute and Obtuse Angles</a></li> <li>• <a href="#">Measuring Reflex Angles</a></li> </ul> <p><b>3. Online Worksheets</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles Practice</a></li> <li>• <a href="#">Angles in the Real World Practice</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Properties of Right Angles Practice</a></li> <li>• <a href="#">Types of Angles Practice</a></li> <li>• <a href="#">Other Common Angles Practice</a></li> <li>• <a href="#">Estimating the Size of Angles Practice</a></li> <li>• <a href="#">Measuring Acute and Obtuse Angles Practice</a></li> <li>• <a href="#">Measuring Reflex Angles Practice</a></li> </ul> <p><b>4. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Geometric Reasoning</a></li> <li>• <a href="#">Definitions MCQ: Geometric Reasoning</a></li> <li>• <a href="#">Spelling List: Geometric Reasoning</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y5 Angles</a></li> </ul>

# Space

Content Descriptor/s	EP Lessons in 1. Shapes and Solids	
<p>AC9M5SP01 connect objects to their nets and build objects from their nets using spatial and geometric reasoning</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Rectangles</a></li> <li>• <a href="#">Triangles</a></li> <li>• <a href="#">Comparing Shapes</a></li> </ul> <p>2. <i>Shapes</i></p> <ul style="list-style-type: none"> <li>• <a href="#">2D Shapes</a></li> <li>• <a href="#">Identifying Polygons</a></li> <li>• <a href="#">Irregular Polygons</a></li> <li>• <a href="#">Composite Shapes</a></li> </ul> <p>3. <i>Solids</i></p> <ul style="list-style-type: none"> <li>• <a href="#">3D Solids</a></li> <li>• <a href="#">Constructing 3D Objects</a></li> <li>• <a href="#">Identifying Faces of Prisms and Pyramids</a></li> <li>• <a href="#">Nets of Prisms</a></li> <li>• <a href="#">Nets of Pyramids</a></li> <li>• <a href="#">Activity: Making Objects Using Nets</a></li> </ul>	<p>4. <i>Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">2D Shapes Practice</a></li> <li>• <a href="#">Regular Polygons Practice</a></li> <li>• <a href="#">Irregular Polygons Practice</a></li> <li>• <a href="#">Composite Shapes Practice</a></li> <li>• <a href="#">3D Solids Practice</a></li> <li>• <a href="#">Identifying Faces of Prisms and Pyramids Practice</a></li> <li>• <a href="#">Nets of Prisms Practice</a></li> <li>• <a href="#">Nets of Pyramids Practice</a></li> </ul> <p>5. <i>Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Shape</a></li> <li>• <a href="#">Definitions MCQ: Shape</a></li> <li>• <a href="#">Spelling List: Shape</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y5 2D Shape</a></li> <li>• <a href="#">Y5 3D Shape</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Transformations	
<p>AC9M5SP03 describe and perform translations, reflections and rotations of shapes, using dynamic geometric software where appropriate; recognise what changes and what remains the same, and identify any symmetries</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Directional Language</a></li> <li>• <a href="#">Describing Locations</a></li> <li>• <a href="#">Giving and Following Directions</a></li> <li>• <a href="#">Transforming Shapes</a></li> <li>• <a href="#">Locations</a></li> <li>• <a href="#">Describing Routes Using Landmarks</a></li> <li>• <a href="#">Using Compasses and Scales</a></li> </ul>	<p>2. <i>Transformations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Line Symmetry</a></li> <li>• <a href="#">Line Symmetry in Life</a></li> <li>• <a href="#">Identifying Rotational Symmetry</a></li> <li>• <a href="#">Rotational Symmetry in Life</a></li> <li>• <a href="#">Order of Rotational Symmetry</a></li> <li>• <a href="#">Rotation on a Grid</a></li> <li>• <a href="#">Reflection on a Grid</a></li> <li>• <a href="#">The Enlargement Transformation</a></li> <li>• <a href="#">Translation on a Grid</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 2. Transformations (continued from previous page)	
	<p>3. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Locations Practice</a></li> <li>• <a href="#">Reflection on a Grid Practice</a></li> <li>• <a href="#">The Enlargement Transformation Practice</a></li> <li>• <a href="#">Translation on a Grid Practice</a></li> <li>• <a href="#">Describing Routes Practice</a></li> <li>• <a href="#">Describing Routes Using Landmarks Practice</a></li> <li>• <a href="#">Line Symmetry Practice</a></li> <li>• <a href="#">Line Symmetry in Life Practice</a></li> <li>• <a href="#">Identifying Rotational Symmetry Practice</a></li> <li>• <a href="#">Rotational Symmetry in Life Practice</a></li> <li>• <a href="#">Order of Rotational Symmetry Practice</a></li> <li>• <a href="#">Rotation on a Grid Practice</a></li> </ul>	<p>4. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Map Projections: A Matter of Perspective (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Location and Transformation</a></li> <li>• <a href="#">Definitions MCQ: Location and Transformation</a></li> <li>• <a href="#">Spelling List: Location and Transformation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y5 Location</a></li> <li>• <a href="#">Y5 Transformation</a></li> </ul>

## Probability

Content Descriptor/s	EP Lessons in 5. Probability	
<p>AC9M5P01 list the possible outcomes of chance experiments involving equally likely outcomes and compare to those which are not equally likely</p> <p>AC9M5P02 conduct repeated chance experiments including those with and without equally likely outcomes, observe and record the results ; use frequency to compare outcomes and estimate their likelihoods</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">What are Events?</a></li> <li>• <a href="#">How Likely?</a></li> <li>• <a href="#">Impossible and Certain Events</a></li> <li>• <a href="#">Differences in Results</a></li> </ul> <p>2. Chance</p> <ul style="list-style-type: none"> <li>• <a href="#">The Likelihood Scale</a></li> <li>• <a href="#">Likelihood of Events</a></li> <li>• <a href="#">Equal and Unequal Outcomes</a></li> <li>• <a href="#">The Probability of Outcomes</a></li> <li>• <a href="#">Chance Games</a></li> </ul>	<p>3. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">The Likelihood Scale Practice</a></li> <li>• <a href="#">Likelihood of Events Practice</a></li> <li>• <a href="#">Equal and Unequal Outcomes Practice</a></li> <li>• <a href="#">The Probability of Outcomes Practice</a></li> <li>• <a href="#">Chance Games Practice</a></li> </ul> <p>4. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Unfortunate Events (Year 5-10)</a></li> <li>• <a href="#">Chance Games from Other Cultures</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Chance</a></li> <li>• <a href="#">Definitions MCQ: Chance</a></li> <li>• <a href="#">Spelling List: Chance</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Chance</a></li> </ul>

# Statistics

Content Descriptor/s	EP Lessons in <i>6. Statistics</i>	
<p>AC9M5ST01 acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables to address a question of interest or purpose using software including spreadsheets; discuss and report on data distributions in terms of highest frequency (mode) and shape, in the context of the data</p> <p>AC9M5ST03 plan and conduct statistical investigations by posing questions or identifying a problem and collecting relevant data; choose appropriate displays and interpret the data; communicate findings within the context of the investigation</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"><li>• <a href="#">Collecting Data</a></li><li>• <a href="#">Questions and Answers</a></li><li>• <a href="#">What is a Number?</a></li></ul> <p><i>2. Collecting Data</i></p> <ul style="list-style-type: none"><li>• <a href="#">What is Data?</a></li><li>• <a href="#">Questions and Answers</a></li><li>• <a href="#">Collecting Data</a></li><li>• <a href="#">Surveys</a></li></ul> <p><i>3. Data Displays</i></p> <ul style="list-style-type: none"><li>• <a href="#">Tally Marks</a></li><li>• <a href="#">Data Tables</a></li><li>• <a href="#">Picture Graphs</a></li><li>• <a href="#">Picture Graphs and Frequency Tables</a></li><li>• <a href="#">Picture Graphs with Keys</a></li><li>• <a href="#">Dot Plots</a></li><li>• <a href="#">Dot Plots and Frequency Tables</a></li><li>• <a href="#">Column (Bar) Graphs</a></li><li>• <a href="#">Reading Column Graphs</a></li><li>• <a href="#">Reading from Data Displays</a></li><li>• <a href="#">Comparing Graphs</a></li></ul>	<p><i>4. Online Worksheets</i></p> <ul style="list-style-type: none"><li>• <a href="#">What is Data: Practice</a></li><li>• <a href="#">Dot Plots and Tables Practice</a></li><li>• <a href="#">Column (Bar) Graphs Practice</a></li><li>• <a href="#">Reading Column Graphs Practice</a></li><li>• <a href="#">Comparing Graphs Practice</a></li><li>• <a href="#">Collecting Data Practice</a></li><li>• <a href="#">Surveys Practice</a></li><li>• <a href="#">Tally Marks Practice</a></li><li>• <a href="#">Data Tables Practice</a></li><li>• <a href="#">Picture Graphs Practice</a></li><li>• <a href="#">Picture Graphs and Data Tables Practice</a></li><li>• <a href="#">Picture Graphs with Keys Practice</a></li><li>• <a href="#">Dot Plots Practice</a></li></ul> <p><i>5. Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"><li>• <a href="#">Definitions List: Data Representation and Interpretation</a></li><li>• <a href="#">Definitions MCQ: Data Representation and Interpretation</a></li><li>• <a href="#">Spelling List: Data Representation and Interpretation</a></li></ul> <p>Topic Tests</p> <ul style="list-style-type: none"><li>• <a href="#">Y5 Data Representation and Interpretation</a></li></ul>



# Year 05 Pre-Tests and Post-Tests

Content Descriptor/s	EP Lessons	
	<p data-bbox="920 236 1070 260"><i>1. Pre-Tests</i></p> <ul data-bbox="972 276 1402 483" style="list-style-type: none"><li data-bbox="972 276 1330 300">• <a href="#">Year 05 Number Pre-Test</a></li><li data-bbox="972 308 1330 331">• <a href="#">Year 05 Algebra Pre-Test</a></li><li data-bbox="972 339 1402 363">• <a href="#">Year 05 Measurement Pre-Test</a></li><li data-bbox="972 371 1352 395">• <a href="#">Year 05 Geometry Pre-Test</a></li><li data-bbox="972 403 1330 427">• <a href="#">Year 05 Chance Pre-Test</a></li><li data-bbox="972 435 1290 459">• <a href="#">Year 05 Data Pre-Test</a></li></ul>	<p data-bbox="1543 236 1711 260"><i>2. Post-Tests</i></p> <ul data-bbox="1594 276 2024 483" style="list-style-type: none"><li data-bbox="1594 276 1953 300">• <a href="#">Year 05 Number Post-Test</a></li><li data-bbox="1594 308 1953 331">• <a href="#">Year 05 Algebra Post-Test</a></li><li data-bbox="1594 339 2024 363">• <a href="#">Year 05 Measurement Post-Test</a></li><li data-bbox="1594 371 1975 395">• <a href="#">Year 05 Geometry Post-Test</a></li><li data-bbox="1594 403 1953 427">• <a href="#">Year 05 Chance Post-Test</a></li><li data-bbox="1594 435 1912 459">• <a href="#">Year 05 Data Post-Test</a></li></ul>

# Year 6

## Number

Content Descriptor/s	EP Lessons in 1. Number and Place Value	
<p>AC9M6N01 recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane</p> <p>AC9M6N02 identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"><li>• <a href="#">What is a Number?</a></li><li>• <a href="#">Number Lines</a></li><li>• <a href="#">Counting</a></li><li>• <a href="#">Odd and Even Numbers</a></li><li>• <a href="#">Multi Digit Odd and Even Numbers</a></li><li>• <a href="#">Place Values</a></li><li>• <a href="#">Expanding Numbers</a></li><li>• <a href="#">Subtracting with Number Lines</a></li><li>• <a href="#">Numbers in Written Form</a></li><li>• <a href="#">Addition</a></li><li>• <a href="#">Subtraction</a></li><li>• <a href="#">Applying Addition and Subtraction</a></li><li>• <a href="#">Column Multiplication</a></li><li>• <a href="#">Multiplication Using Rounding and Compensation</a></li><li>• <a href="#">Long Division</a></li><li>• <a href="#">Applying Multiplication and Division</a></li></ul> <p><i>2. Integers</i></p> <ul style="list-style-type: none"><li>• <a href="#">Positive Integers</a></li><li>• <a href="#">Ordering Positive Integers</a></li><li>• <a href="#">Negative Integers</a></li><li>• <a href="#">Introduction to Negative Numbers</a></li><li>• <a href="#">Negative Numbers on the Number Line</a></li><li>• <a href="#">Ordering Negative Integers</a></li></ul>	<p><i>4. Properties of Numbers</i></p> <ul style="list-style-type: none"><li>• <a href="#">Prime Numbers</a></li><li>• <a href="#">Composite Numbers</a></li><li>• <a href="#">Factor Trees</a></li><li>• <a href="#">Square Numbers</a></li><li>• <a href="#">Calculating Square Numbers</a></li></ul> <p><i>5. Online Worksheets</i></p> <ul style="list-style-type: none"><li>• <a href="#">Positive Integers Practice</a></li><li>• <a href="#">Ordering Positive Integers Practice</a></li><li>• <a href="#">Negative Integers Practice</a></li><li>• <a href="#">Ordering Negative Integers Practice</a></li><li>• <a href="#">Addition Practice</a></li><li>• <a href="#">Subtraction Practice</a></li><li>• <a href="#">Applying Addition and Subtraction Practice</a></li><li>• <a href="#">Column Multiplication Practice</a></li><li>• <a href="#">Multiplication Using Rounding and Compensation Practice</a></li><li>• <a href="#">Long Division Practice</a></li><li>• <a href="#">Applying Multiplication and Division Practice</a></li><li>• <a href="#">Prime Numbers Practice</a></li><li>• <a href="#">Composite Numbers Practice</a></li><li>• <a href="#">Factor Trees Practice</a></li><li>• <a href="#">Square Numbers Practice</a></li><li>• <a href="#">Calculating Square Numbers Practice</a></li></ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Number and Place Value (continued from previous page)	
	<p>6. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Number and Place Value</a></li> <li>• <a href="#">Definitions MCQ: Number and Place Value</a></li> <li>• <a href="#">Spelling List: Number and Place Value</a></li> </ul>	<p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Arithmetic Laws</a></li> <li>• <a href="#">Y6 Number and Place Value</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Fractions, Decimals and Percentages	
<p>AC9M6N03 apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order</p> <p>AC9M6N04 apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers</p> <p>AC9M6N05 solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions</p> <p>AC9M6N06 multiply and divide decimals by multiples of powers of 10 without a calculator, applying knowledge of place value and proficiency with multiplication facts; using estimation and rounding to check the reasonableness of answers</p> <p>AC9M6N07 solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate</p> <p>AC9M6N08 approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Half</a></li> <li>• <a href="#">Quarters and Eighths</a></li> <li>• <a href="#">Using Fractions</a></li> </ul> <p>2. Fraction Basics</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Fractions</a></li> <li>• <a href="#">Proper Fractions</a></li> <li>• <a href="#">Improper Fractions</a></li> <li>• <a href="#">Mixed Numbers</a></li> <li>• <a href="#">Fractions and Number Lines</a></li> <li>• <a href="#">Equivalent Fractions</a></li> <li>• <a href="#">Comparing Fractions</a></li> <li>• <a href="#">Simplifying Fractions</a></li> <li>• <a href="#">Fraction of a Quantity</a></li> </ul> <p>3. Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding Fractions with the Same Denominator</a></li> <li>• <a href="#">Subtracting Fractions with the Same Denominator</a></li> <li>• <a href="#">Adding Mixed Numbers with the Same Denominator</a></li> <li>• <a href="#">Subtracting Mixed Numbers with the Same Denominator</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Adding Fractions with Related Denominators</a></li> <li>• <a href="#">Subtracting Fractions with Related Denominators</a></li> </ul> <p>4. Decimal Basics</p> <ul style="list-style-type: none"> <li>• <a href="#">Decimal Place Values</a></li> <li>• <a href="#">Comparing Decimals</a></li> </ul> <p>5. Adding and Subtracting Decimals</p> <ul style="list-style-type: none"> <li>• <a href="#">Adding Decimals</a></li> <li>• <a href="#">Applications of Adding Decimals</a></li> <li>• <a href="#">Subtracting Decimals</a></li> <li>• <a href="#">Applications of Subtracting Decimals</a></li> <li>• <a href="#">Multiplying Decimals</a></li> <li>• <a href="#">Dividing Decimals by Whole Numbers</a></li> </ul> <p>6. Percentage Basics</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Percentages</a></li> <li>• <a href="#">Percentages of a Number</a></li> </ul> <p>7. Converting between Fractions, Decimals and Percentages</p> <ul style="list-style-type: none"> <li>• <a href="#">Percentages and Decimals</a></li> <li>• <a href="#">Percentages, Decimals and Fractions</a></li> <li>• <a href="#">Converting Percentages</a></li> </ul> <p><b>Resources continue on next page</b></p>

**Content Descriptor/s (see previous page)****EP Lessons in 2. Fractions, Decimals and Percentages (continued from previous page)****8. Online Worksheets****1. Fraction Basics**

- [Introduction to Fractions Practice](#)
- [Proper Fractions Practice](#)
- [Improper Fractions Practice](#)
- [Mixed Numbers Practice](#)
- [Fractions and Number Lines Practice](#)
- [Equivalent Fractions Practice](#)
- [Comparing Fractions Practice](#)
- [Simplifying Fractions Practice](#)
- [Fraction of a Quantity Practice](#)

**2. Adding and Subtracting Fractions**

- [Adding Fractions with the Same Denominator Practice](#)
- [Subtracting Fractions with the Same Denominator Practice](#)
- [Adding Mixed Numbers with the Same Denominator Practice](#)
- [Subtracting Mixed Numbers with the Same Denominator Practice](#)
- [Adding Fractions with Related Denominators Practice](#)
- [Subtracting Fractions with Related Denominators Practice](#)

**3. Decimal Basics**

- [Decimal Place Values Practice](#)
- [Comparing Decimals Practice](#)

**4. Adding and Subtracting Decimals**

- [Adding Decimals Practice](#)
- [Applications of Adding Decimals Practice](#)
- [Subtracting Decimals Practice](#)
- [Applications of Subtracting Decimals Practice](#)

**5. Multiplying and Dividing Decimals**

- [Multiplying Decimals Practice](#)
- [Dividing Decimals Practice](#)

**6. Percentage Basics**

- [Introduction to Percentages Practice](#)
- [Percentages of a Number Practice](#)

**7. Converting between Fractions, Decimals, and Percentages**

- [Converting Percentages Practice](#)
- [Percentages and Decimals Practice](#)
- [Percentages, Decimals and Fractions Practice](#)

**9. Further Resources****Spelling and Definitions**

- [Definitions List: Fractions and Decimals](#)
- [Definitions MCQ: Fractions and Decimals](#)
- [Spelling List: Fractions and Decimals](#)

**Topic Tests**

- [Percentages](#)
- [Y6 Decimals and Percentages](#)
- [Y6 Fractions](#)

Content Descriptor/s	EP Lessons in 3. Financial Contexts	
<p>AC9M6N07 solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Money</a></li> <li>• <a href="#">Count the Change</a></li> <li>• <a href="#">Shopping</a></li> </ul> <p>2. Discounts</p> <ul style="list-style-type: none"> <li>• <a href="#">Discounts</a></li> <li>• <a href="#">Calculating Discounts</a></li> </ul> <p>3. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Discounts Practice</a></li> <li>• <a href="#">Calculating Discounts Practice</a></li> </ul>	<p>4. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Money and Financial Mathematics</a></li> <li>• <a href="#">Definitions MCQ: Money and Financial Mathematics</a></li> <li>• <a href="#">Spelling List: Money and Financial Mathematics</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Discounts</a></li> </ul>

## Algebra

Content Descriptor/s	EP Lessons in 2. Algebra	
<p>AC9M6A01 recognise and use rules that generate visually growing patterns and number patterns involving rational numbers</p> <p>AC9M6A02 find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations</p> <p>AC9M6A03 create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Counting</a></li> <li>• <a href="#">Skip Counting Up</a></li> <li>• <a href="#">Skip Counting Down</a></li> <li>• <a href="#">Number Patterns</a></li> <li>• <a href="#">Patterns with Objects</a></li> </ul> <p>2. Patterns</p> <ul style="list-style-type: none"> <li>• <a href="#">Identifying Patterns</a></li> <li>• <a href="#">Describing Patterns</a></li> <li>• <a href="#">Continuing Patterns to Distant Terms</a></li> </ul> <p>3. Order of Operations</p> <ul style="list-style-type: none"> <li>• <a href="#">Order of Operations</a></li> <li>• <a href="#">Preserving Order of Operations</a></li> </ul> <p>4. Online Worksheets</p> <p>1. Patterns</p> <ul style="list-style-type: none"> <li>• <a href="#">Identifying Relationships Practice</a></li> <li>• <a href="#">Continuing Patterns Practice</a></li> <li>• <a href="#">Rules for Patterns Practice</a></li> </ul>	<p>2. Order of Operations</p> <ul style="list-style-type: none"> <li>• <a href="#">Order of Operations Practice</a></li> <li>• <a href="#">Preserving Order of Operations Practice</a></li> </ul> <p>5. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Patterns Found in Nature (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y6 Patterns and Algebra</a></li> </ul>

# Measurement

Content Descriptor/s	EP Lessons in 1. Measurement	
<p>AC9M6M01 convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement</a></li> <li>• <a href="#">Comparing Lengths and Objects</a></li> <li>• <a href="#">The Metric System</a></li> <li>• <a href="#">Area</a></li> <li>• <a href="#">Area Models for Multiplication</a></li> </ul> <p><i>2. Length</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Length</a></li> <li>• <a href="#">Method for Converting Units of Length</a></li> <li>• <a href="#">Converting Units of Length</a></li> <li>• <a href="#">Comparing Units of Length</a></li> <li>• <a href="#">Interpreting Units of Length</a></li> </ul> <p><i>3. Mass</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Mass</a></li> <li>• <a href="#">Converting Units of Mass</a></li> <li>• <a href="#">Applications of Converting Units of Mass</a></li> <li>• <a href="#">Interpreting Units of Mass</a></li> </ul> <p><i>4. Capacity and Volume</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Capacity and Volume</a></li> <li>• <a href="#">Volume</a></li> <li>• <a href="#">Units of Capacity</a></li> <li>• <a href="#">Converting Units of Capacity</a></li> <li>• <a href="#">Applications of Converting Units of Capacity</a></li> <li>• <a href="#">Interpreting Units of Capacity</a></li> </ul> <p><i>5. Online Worksheets</i></p> <p><i>1. Length</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Length Practice</a></li> <li>• <a href="#">Method of Converting Units of Length Practice</a></li> <li>• <a href="#">Converting Units of Length Practice</a></li> <li>• <a href="#">Comparing Units of Length Practice</a></li> <li>• <a href="#">Interpreting Units of Length Practice</a></li> </ul>	<p><i>2. Mass</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Mass Practice</a></li> <li>• <a href="#">Converting Units of Mass Practice</a></li> <li>• <a href="#">Applications of Converting Units of Mass Practice</a></li> <li>• <a href="#">Interpreting Units of Mass Practice</a></li> </ul> <p><i>3. Capacity and Volume</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Capacity Practice</a></li> <li>• <a href="#">Converting Units of Capacity Practice</a></li> <li>• <a href="#">Applications of Converting Units of Capacity Practice</a></li> <li>• <a href="#">Interpreting Units of Capacity Practice</a></li> <li>• <a href="#">Capacity and Volume Practice</a></li> <li>• <a href="#">Units of Volume Practice</a></li> </ul> <p><i>6. Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Units of Measurement</a></li> <li>• <a href="#">Definitions MCQ: Units of Measurement</a></li> <li>• <a href="#">Spelling List: Units of Measurement</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement</a></li> </ul>

Content Descriptor/s	EP Lessons in <b>2. Time</b>	
AC9M6M03 interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Days, Months, Seasons</a></li> <li>• <a href="#">Language of Time</a></li> <li>• <a href="#">Splitting Up Time</a></li> </ul> <p><b>2. Timetables</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Personal Timetables</a></li> <li>• <a href="#">Reading Timetables</a></li> <li>• <a href="#">Timetables and Transport</a></li> <li>• <a href="#">Using Multiple Timetables</a></li> <li>• <a href="#">Timelines</a></li> </ul> <p><b>3. Online Worksheets</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Personal Timetables Practice</a></li> <li>• <a href="#">Reading Timetables Practice</a></li> <li>• <a href="#">Timetables and Transport Practice</a></li> <li>• <a href="#">Reading Multiple Timetables Practice</a></li> <li>• <a href="#">Timelines Practice</a></li> </ul>	<p><b>4. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Time</a></li> <li>• <a href="#">Definitions MCQ: Time</a></li> <li>• <a href="#">Spelling List: Time</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Timetables and Timelines</a></li> </ul>
Content Descriptor/s	EP Lessons in <b>3. Angles</b>	
AC9M6M04 identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles: Amount of Turn</a></li> </ul> <p><b>2. Angles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Common Angles</a></li> <li>• <a href="#">Types of Angles</a></li> <li>• <a href="#">Measuring Angles</a></li> <li>• <a href="#">Angles on Straight Lines</a></li> <li>• <a href="#">Angles in Corners</a></li> <li>• <a href="#">Angles Around a Point</a></li> <li>• <a href="#">Vertically Opposite Angles</a></li> </ul>	<p><b>3. Online Worksheets</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Common Angles Practice</a></li> <li>• <a href="#">Types of Angles Practice</a></li> <li>• <a href="#">Measuring Angles Practice</a></li> <li>• <a href="#">Angles on Straight Lines Practice</a></li> <li>• <a href="#">Angles in Corners Practice</a></li> <li>• <a href="#">Angles around a Point Practice</a></li> <li>• <a href="#">Vertically Opposite Angles Practice</a></li> </ul> <p><b>4. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Geometric Reasoning</a></li> <li>• <a href="#">Definitions MCQ: Geometric Reasoning</a></li> <li>• <a href="#">Spelling List: Geometric Reasoning</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y6 Geometric Reasoning</a></li> </ul>

# Space

Content Descriptor/s	EP Lessons in 1. Shape	
AC9M6SP01 compare the parallel cross-sections of objects and recognise their relationships to right prisms	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"><li>• <a href="#">Rectangles</a></li><li>• <a href="#">Triangles</a></li><li>• <a href="#">Comparing Shapes</a></li><li>• <a href="#">Nets of Prisms</a></li><li>• <a href="#">Nets of Pyramids</a></li><li>• <a href="#">Nets of Prisms Practice</a></li><li>• <a href="#">Nets of Pyramids Practice</a></li></ul> <p><i>2. Prisms</i></p> <ul style="list-style-type: none"><li>• <a href="#">Prisms</a></li><li>• <a href="#">Drawing Prisms</a></li></ul> <p><i>3. Pyramids</i></p> <ul style="list-style-type: none"><li>• <a href="#">Pyramids</a></li><li>• <a href="#">Drawing Pyramids</a></li></ul> <p><i>4. Online Worksheets</i></p> <ul style="list-style-type: none"><li>• <a href="#">Prisms Practice</a></li><li>• <a href="#">Pyramids Practice</a></li><li>• <a href="#">Pyramids in the Real World Practice</a></li></ul> <p><i>5. Further Resources</i></p> <p>Hands-On Activities</p> <p>Geoboard Tetris</p> <ul style="list-style-type: none"><li>• <a href="#">Geoboard Tetris</a></li><li>• <a href="#">Geoboard Tetris Student Worksheet</a></li><li>• <a href="#">Geoboard Tetris Teacher Guide</a></li><li>• <a href="#">Paper Geoboard Tetris Student Worksheet</a></li><li>• <a href="#">Printable Geoboard</a></li></ul>	<p>Playdough Prisms</p> <ul style="list-style-type: none"><li>• <a href="#">Playdough Prisms</a></li><li>• <a href="#">Playdough Prisms Student Worksheet</a></li><li>• <a href="#">Playdough Prisms Teacher Guide</a></li><li>• <a href="#">Playdough Recipe</a></li></ul> <p>Maths in Context</p> <ul style="list-style-type: none"><li>• <a href="#">Pyramids in the Real World</a></li></ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"><li>• <a href="#">Definitions List: Shape</a></li><li>• <a href="#">Definitions MCQ: Shape</a></li><li>• <a href="#">Spelling List: Shape</a></li></ul> <p>Topic Tests</p> <ul style="list-style-type: none"><li>• <a href="#">Y6 Shape</a></li></ul>



Content Descriptor/s	EP Lessons in <i>2. Location and Transformation</i>	
<p>AC9M6SP02 locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane</p> <p>AC9M6SP03 recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Describing Locations</a></li> <li>• <a href="#">Directional Language</a></li> <li>• <a href="#">Giving and Following Directions</a></li> <li>• <a href="#">Transforming Shapes</a></li> <li>• <a href="#">Translation on a Grid</a></li> <li>• <a href="#">Reflection on a Grid</a></li> <li>• <a href="#">Rotation on a Grid</a></li> <li>• <a href="#">The Enlargement Transformation</a></li> </ul> <p><i>2. Locations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Cartesian Planes</a></li> <li>• <a href="#">Describing Locations with Coordinates</a></li> <li>• <a href="#">Describing Locations with Cartesian Planes</a></li> </ul> <p><i>3. Transformations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Translation</a></li> <li>• <a href="#">Reflection</a></li> <li>• <a href="#">Rotation Introduction</a></li> <li>• <a href="#">Predicting Patterns</a></li> </ul> <p><i>4. Tessellations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Tessellations</a></li> <li>• <a href="#">Tessellations Student Worksheet</a></li> <li>• <a href="#">Tessellations Teacher Guide</a></li> </ul> <p><i>4. Online Worksheets</i></p> <p><i>1. Locations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Cartesian Planes Practice</a></li> <li>• <a href="#">Describing Locations with Coordinates Practice</a></li> <li>• <a href="#">Describing Locations with Cartesian Planes Practice</a></li> </ul>	<p><i>2. Transformations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Translation Practice</a></li> <li>• <a href="#">Reflections Practice</a></li> <li>• <a href="#">Rotation Practice</a></li> <li>• <a href="#">Predicting Patterns Practice</a></li> </ul> <p><i>5. Further Resources</i></p> <p>Hands-On Activities</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Map Projections: A Matter of Perspective (Year 5-10)</a></li> <li>• <a href="#">Rotation and Symmetry in Aboriginal Kinship Systems</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Location and Transformation</a></li> <li>• <a href="#">Definitions MCQ: Location and Transformation</a></li> <li>• <a href="#">Spelling List: Location and Transformation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Locations</a></li> <li>• <a href="#">Transformations</a></li> </ul>

# Probability

Content Descriptor/s	EP Lessons in 1. Probability	
<p>AC9M6P01 recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals</p> <p>AC9M6P02 conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and discuss the effect on variation of increasing the number of trials</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">What are Events?</a></li> <li>• <a href="#">How Likely?</a></li> <li>• <a href="#">Impossible and Certain Events</a></li> <li>• <a href="#">Differences in Results</a></li> <li>• <a href="#">Percentages, Decimals and Fractions</a></li> </ul> <p><i>2. Chance</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Writing Probabilities</a></li> <li>• <a href="#">Proportional Reasoning</a></li> <li>• <a href="#">Probability Experiments</a></li> <li>• <a href="#">Observed Outcomes vs. Expected Outcomes</a></li> <li>• <a href="#">Probability as a Fraction</a></li> <li>• <a href="#">Probability as a Fraction II</a></li> <li>• <a href="#">Probability as a Decimal and a Percentage</a></li> </ul> <p><i>3. Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Writing Probabilities Practice</a></li> <li>• <a href="#">Proportional Reasoning Practice</a></li> <li>• <a href="#">Probability Experiments Practice</a></li> <li>• <a href="#">Observed Outcomes vs. Expected Outcomes Practice</a></li> <li>• <a href="#">Probability as a Fraction Practice</a></li> </ul>	<p><i>4. Further Resources</i></p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Chance Games from Other Cultures</a></li> <li>• <a href="#">Unfortunate Events (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Chance</a></li> <li>• <a href="#">Definitions MCQ: Chance</a></li> <li>• <a href="#">Spelling List: Chance</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Chance</a></li> </ul>

# Statistics

Content Descriptor/s	EP Lessons in 6. <i>Statistics</i>	
<p>AC9M6ST01 interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape</p> <p>AC9M6ST02 identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Collecting Data</a></li> <li>• <a href="#">Questions and Answers</a></li> <li>• <a href="#">Reading from Data Displays</a></li> </ul> <p><i>2. Data Representation and Interpretation</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Picture Graphs</a></li> <li>• <a href="#">Misleading Data and Graphs</a></li> <li>• <a href="#">Picture Graphs with Keys</a></li> <li>• <a href="#">Dot Plots</a></li> <li>• <a href="#">Column (Bar) Graphs</a></li> <li>• <a href="#">Reading Column (Bar) Graphs</a></li> <li>• <a href="#">Side-by-Side Column Graphs</a></li> <li>• <a href="#">Pie Charts</a></li> <li>• <a href="#">Line Graphs</a></li> <li>• <a href="#">Two-Way Tables</a></li> <li>• <a href="#">Types of Data</a></li> </ul> <p><i>2. Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Picture Graphs Practice</a></li> <li>• <a href="#">Picture Graphs with Keys Practice</a></li> <li>• <a href="#">Dot Plots Practice</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Column (Bar) Graphs Practice</a></li> <li>• <a href="#">Reading Column (Bar) Graphs Practice</a></li> <li>• <a href="#">Side-by-Side Column Graphs Practice</a></li> <li>• <a href="#">Pie Charts Practice</a></li> <li>• <a href="#">Line Graphs Practice</a></li> <li>• <a href="#">Two-Way Tables Practice</a></li> <li>• <a href="#">Misleading Data and Graphs Practice</a></li> </ul> <p><i>3. Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Data Representation and Interpretation</a></li> <li>• <a href="#">Definitions MCQ: Data Representation and Interpretation</a></li> <li>• <a href="#">Spelling List: Data Representation and Interpretation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Y6 Data Representation and Interpretation</a></li> </ul>

## Year 06 Pre-Tests and Post-Tests

Content Descriptor/s	EP Lessons	
	<p><i>1. Pre-Tests</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Year 06 Algebra Pre-Test</a></li> <li>• <a href="#">Year 06 Chance Pre-Test</a></li> <li>• <a href="#">Year 06 Data Pre-Test</a></li> <li>• <a href="#">Year 06 Geometry Pre-Test</a></li> <li>• <a href="#">Year 06 Measurement Pre-Test</a></li> <li>• <a href="#">Year 06 Number Pre-Test</a></li> </ul>	<p><i>2. Post-Tests</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Year 06 Algebra Post-Test</a></li> <li>• <a href="#">Year 06 Chance Post-Test</a></li> <li>• <a href="#">Year 06 Data Post-Test</a></li> <li>• <a href="#">Year 06 Geometry Post-Test</a></li> <li>• <a href="#">Year 06 Measurement Post-Test</a></li> <li>• <a href="#">Year 06 Number Post-Test</a></li> </ul>

# Year 7

## Number

Content Descriptor/s	EP Lessons in 1. Number	
<p>AC9M7N01 describe the relationship between perfect square numbers and square roots, and use squares of numbers and square roots of perfect square numbers to solve problems</p> <p>AC9M7N02 represent natural numbers as products of powers of prime numbers using exponent notation</p> <p>AC9M7N05 round decimals to a given accuracy appropriate to the context and use appropriate rounding and estimation to check the reasonableness of solutions</p> <p>AC9M7N06 use the 4 operations with positive rational numbers including fractions, decimals and percentages to solve problems using efficient calculation strategies</p> <p>AC9M7N07 compare, order and solve problems involving addition and subtraction of integers</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"><li>• <a href="#">Addition</a></li><li>• <a href="#">Subtraction</a></li><li>• <a href="#">Applying Addition and Subtraction</a></li><li>• <a href="#">Column Multiplication</a></li><li>• <a href="#">Multiplication Using Rounding and Compensation</a></li><li>• <a href="#">Long Division</a></li><li>• <a href="#">Short Division - Without Remainders</a></li><li>• <a href="#">Short Division - With Whole Number Remainders</a></li><li>• <a href="#">Applying Multiplication and Division</a></li></ul> <p>2. <i>Integers</i></p> <ul style="list-style-type: none"><li>• <a href="#">Positive Integers</a></li><li>• <a href="#">Negative Integers</a></li><li>• <a href="#">Comparing &amp; Ordering Integers</a></li><li>• <a href="#">Adding Negative Numbers</a></li><li>• <a href="#">Subtracting Negative Numbers</a></li><li>• <a href="#">Adding &amp; Subtracting Integers</a></li></ul> <p>3. <i>Factors and Multiples</i></p> <ul style="list-style-type: none"><li>• <a href="#">Multiples</a></li><li>• <a href="#">Factors</a></li><li>• <a href="#">Highest Common Factor</a></li><li>• <a href="#">Lowest Common Multiple</a></li><li>• <a href="#">Index Notation</a></li></ul>	<p>4. <i>Prime Numbers and Prime Factors</i></p> <ul style="list-style-type: none"><li>• <a href="#">Prime &amp; Composite Numbers</a></li><li>• <a href="#">Factor Trees</a></li><li>• <a href="#">Prime Factors and the HCF</a></li><li>• <a href="#">Prime Factors and the LCM</a></li><li>• <a href="#">Applying Prime Factors</a></li></ul> <p>5. <i>Square Numbers and Square Roots</i></p> <ul style="list-style-type: none"><li>• <a href="#">Perfect Squares</a></li><li>• <a href="#">Square Roots</a></li><li>• <a href="#">Square Roots of Non-Perfect Squares</a></li></ul> <p>6. <i>Rounding</i></p> <ul style="list-style-type: none"><li>• <a href="#">Rounding Sensibly</a></li><li>• <a href="#">Consequences of Rounding</a></li><li>• <a href="#">Rounding Based on Given Values</a></li></ul> <p>7. <i>Online Worksheets</i></p> <p>Arithmetic</p> <ul style="list-style-type: none"><li>• <a href="#">Integers Practice</a></li><li>• <a href="#">Comparing &amp; Ordering Integers Practice</a></li><li>• <a href="#">Adding &amp; Subtracting Integers Practice</a></li><li>• <a href="#">Integers Mixed Practice</a></li></ul> <p>Factors and Multiples</p> <ul style="list-style-type: none"><li>• <a href="#">Multiples Practice</a></li><li>• <a href="#">Factors Practice</a></li><li>• <a href="#">Factors &amp; Multiples Practice</a></li><li>• <a href="#">Factors &amp; Multiples Mixed Practice</a></li><li>• <a href="#">HCF &amp; LCM Practice</a></li></ul>

**Resources continue on next page**

Content Descriptor/s (see previous page)	EP Lessons in 1. Number (continued from previous page)	
	<p>Prime Numbers and Prime Factors</p> <ul style="list-style-type: none"> <li>• <a href="#">Prime &amp; Composite Numbers Practice</a></li> <li>• <a href="#">Prime Factors Practice</a></li> <li>• <a href="#">Prime Numbers and Prime Factors Mixed Practice</a></li> </ul> <p>Square Numbers and Square Roots</p> <ul style="list-style-type: none"> <li>• <a href="#">Perfect Squares Practice</a></li> <li>• <a href="#">Square Roots Practice</a></li> <li>• <a href="#">Square Roots of Non-Perfect Squares Practice</a></li> <li>• <a href="#">Squares and Square Roots Mixed Practice</a></li> </ul> <p>9. Further Resources</p> <p>Hands-On Activities</p> <p>Ordering Integers Lotto</p> <ul style="list-style-type: none"> <li>• <a href="#">Ordering Integers Lotto</a></li> <li>• <a href="#">Ordering Integers Lotto Student PDF</a></li> <li>• <a href="#">Ordering Integers Lotto Teacher PDF</a></li> </ul>	<p>Place Value Codebreaking</p> <ul style="list-style-type: none"> <li>• <a href="#">Place Value Codebreaking</a></li> <li>• <a href="#">Place Value Codebreaking Student Worksheet</a></li> <li>• <a href="#">Place Value Codebreaking Teacher Guide</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Number and Place Value</a></li> <li>• <a href="#">Definitions MCQ: Number and Place Value</a></li> <li>• <a href="#">Spelling List: Number and Place Value</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Arithmetic Laws</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Fractions, Decimals and Percentages	
<p>AC9M7N04 find equivalent representations of rational numbers and represent rational numbers on a number line</p> <p>AC9M7N05 round decimals to a given accuracy appropriate to the context and use appropriate rounding and estimation to check the reasonableness of solutions</p> <p>AC9M7N06 use the 4 operations with positive rational numbers including fractions, decimals and percentages to solve problems using efficient calculation strategies</p> <p>AC9M7N08 recognise, represent and solve problems involving ratios</p>	<p>1. Prior Learning</p> <p>1. Fractions</p> <ul style="list-style-type: none"> <li>• <a href="#">Fractions</a></li> <li>• <a href="#">Fractions and Number Lines</a></li> <li>• <a href="#">Comparing Fractions</a></li> <li>• <a href="#">Equivalent Fractions</a></li> <li>• <a href="#">Simplifying Fractions</a></li> <li>• <a href="#">Adding Fractions with the Same Denominator</a></li> <li>• <a href="#">Subtracting Fractions with the Same Denominator</a></li> <li>• <a href="#">Adding Fractions with a Different Denominator</a></li> <li>• <a href="#">Subtracting Fractions with a Different Denominator</a></li> </ul>	<p>2. Decimals</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Decimals</a></li> <li>• <a href="#">Adding Decimals</a></li> <li>• <a href="#">Subtracting Decimals</a></li> <li>• <a href="#">Multiplying Decimals</a></li> <li>• <a href="#">Dividing Decimals</a></li> <li>• <a href="#">Rounding Decimals</a></li> </ul> <p>3. Percentages</p> <ul style="list-style-type: none"> <li>• <a href="#">Percentages</a></li> <li>• <a href="#">Percentages and Decimals</a></li> <li>• <a href="#">Percentages and Fractions</a></li> <li>• <a href="#">Using Percentages</a></li> </ul> <p><b>Resources continue on next page</b></p>

**Content Descriptor/s (see previous page)**

**EP Lessons in 2. Fractions, Decimals and Percentages (continued from previous page)**

4. Decimals, Fractions and Percentages

- [Converting Between Fractions and Decimals](#)
- [Converting Between Percentages and Fractions](#)

2. Fractions

1. Fraction Basics

- [Fraction Basics](#)
- [Equivalent Fractions](#)
- [Mixed Numbers](#)
- [Fraction Walls](#)
- [Fractions and Number Lines](#)

2. Fractions Arithmetic

- [Adding Fractions with the Same Denominator](#)
- [Subtracting Fractions with the Same Denominator](#)
- [Adding Fractions with a Different Denominator](#)
- [Subtracting Fractions with a Different Denominator](#)
- [Adding Mixed Fractions with the Same Denominator](#)
- [Subtracting Mixed Fractions with the Same Denominator](#)
- [Subtracting Mixed Fractions with a Different Denominator](#)
- [Multiplying Fractions Numerically](#)
- [Multiplying Fractions Using Models](#)
- [Dividing Fractions](#)
- [Dividing Fractions by Simplifying](#)

3. Decimals

- [How Decimals Work](#)
- [Adding Decimals](#)
- [Subtracting Decimals](#)
- [Multiplying Decimals](#)
- [Dividing Decimals](#)
- [Rounding Decimals](#)

4. Percentages

- [Introduction to Percentages](#)
- [Using Percentages](#)

5. Ratios

- [Ratios Introduction](#)
- [Ratios](#)

6. Converting Between Fractions, Decimals and Percentages

- [Converting Between Fractions and Decimals](#)
- [Converting Between Percentages and Fractions: Simplifying Fractions](#)
- [Application: Town Planning](#)

7. Online Worksheets

1. Fractions

- [Introduction to Fractions Practice](#)
- [Mixed Fractions Practice](#)
- [Adding Fractions with the Same Denominator Practice](#)
- [Subtracting Fractions with the Same Denominator Practice](#)
- [Adding Fractions with a Different Denominator Practice](#)
- [Subtracting Fractions with a Different Denominator Practice](#)
- [Subtracting Mixed Numbers with a Different Denominator Practice](#)

**Resources continue on next page**

**Content Descriptor/s (see previous page)**

**EP Lessons in 2. Fractions, Decimals and Percentages (continued from previous page)**

- [Multiplying Fractions Practice](#)
- [Dividing Fractions Practice](#)
- [Mixed Skills Practice](#)
- [Comparing Fractions with the Same Denominator Practice](#)
- [Comparing Fractions as Decimals Practice](#)
- [Fractions and Food Practice:](#)
- [Fractions and Shopping Practice](#)
- [Fractions and the Cosmos Practice](#)

2. Decimals

- [Adding Decimals Practice](#)
- [Subtracting Decimals Practice](#)
- [Multiplying Decimals Practice](#)
- [Dividing Decimals Practice](#)
- [Rounding Decimals Practice](#)
- [Decimals Mixed Practice](#)

3. Percentages

- [Percentages Practice](#)

4. Ratios

- [Ratios Practice](#)
- [Percentages and Ratios Mixed Practice](#)

5. Converting Between Fractions, Decimals and Percentages

- [Converting Between Fractions and Decimals Practice](#)
- [Converting Between Fractions, Decimals and Percentages Mixed Practice](#)
- [Converting Between Decimals and Percentages Practice](#)
- [Converting Between Percentages and Fractions Practice](#)

8. Further Resources

Hands-On Activities

Real Number Dominoes

- [Real Number Dominoes](#)
- [Real Number Dominoes Student Worksheet](#)
- [Real Number Dominoes Teacher Guide](#)

Problem Solving

- [Boxing Day Bonanza](#)

Spelling and Definitions

- [Definitions List: Real Numbers](#)
- [Definitions MCQ: Real Numbers](#)
- [Spelling List: Real Numbers](#)

Topic Tests

- [Fractions, Decimals and Percentages](#)

Content Descriptor/s	EP Lessons in <b>3. Financial Contexts</b>	
<p>AC9M7N09 use mathematical modelling to solve practical problems involving rational numbers and percentages, including financial contexts; formulate problems, choosing representations and efficient calculation strategies, using digital tools as appropriate; interpret and communicate solutions in terms of the situation, justifying choices made about the representation</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Percentages</a></li> <li>• <a href="#">Converting Percentages</a></li> <li>• <a href="#">Percentages of a Number</a></li> <li>• <a href="#">Discounts</a></li> <li>• <a href="#">Calculating Discounts</a></li> </ul> <p><i>2. Best Buys</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Cost per Item</a></li> <li>• <a href="#">Best Buys Using Unit Costs</a></li> <li>• <a href="#">When a Best Buy isn't the Best Option</a></li> </ul> <p><i>3. Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Cost per Item Practice</a></li> <li>• <a href="#">Calculating a Best Buy Practice</a></li> <li>• <a href="#">Unit Pricing Practice</a></li> <li>• <a href="#">Budgeting Practice</a></li> <li>• <a href="#">Uses of Financial Mathematics Practice</a></li> </ul> <p><i>4. Further Resources</i></p> <p>Hands-On Activities</p> <p>Planning a Party</p> <ul style="list-style-type: none"> <li>• <a href="#">Planning a Party</a></li> <li>• <a href="#">Planning a Party Student Worksheet</a></li> <li>• <a href="#">Planning a Party Teacher Guide</a></li> </ul>	<p>Problem Solving</p> <ul style="list-style-type: none"> <li>• <a href="#">Choosing a Usage Plan</a></li> </ul> <p>Skill Enrichment</p> <ul style="list-style-type: none"> <li>• <a href="#">Budgeting: Preparing a Personal Budget</a></li> <li>• <a href="#">Review: Budgeting</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Money and Financial Mathematics</a></li> <li>• <a href="#">Definitions MCQ: Money and Financial Mathematics</a></li> <li>• <a href="#">Spelling List: Money and Financial Mathematics</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Discounts and GST</a></li> </ul>



# Algebra

Content Descriptor/s	EP Lessons in 1. Algebra	
<p>AC9M7A01 recognise and use variables to represent everyday formulas algebraically and substitute values into formulas to determine an unknown</p>		
<p>AC9M7A02 formulate algebraic expressions using constants, variables, operations and brackets</p>		
	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Addition</a></li> <li>• <a href="#">Subtraction</a></li> <li>• <a href="#">Multiplication</a></li> <li>• <a href="#">Division</a></li> <li>• <a href="#">Order of Operations</a></li> </ul> <p><b>2. Introduction to Algebra</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Welcome to Algebra</a></li> <li>• <a href="#">Substitution</a></li> <li>• <a href="#">Arithmetic in Algebra</a></li> <li>• <a href="#">Order of Operations in Algebra</a></li> <li>• <a href="#">Order of Operations in Algebraic Equations</a></li> </ul> <p><b>3. Substituting and Evaluating Algebraic Expressions</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Simplifying Addition in Algebra</a></li> <li>• <a href="#">Simplifying Subtraction in Algebra</a></li> <li>• <a href="#">Simplifying Multiplication in Algebra</a></li> <li>• <a href="#">Simplifying Division in Algebra</a></li> <li>• <a href="#">Substitution in Algebraic Expressions</a></li> <li>• <a href="#">Evaluating Algebraic Expressions</a></li> <li>• <a href="#">Using Formulas</a></li> <li>• <a href="#">Finding Formulas</a></li> </ul> <p><b>4. Contextualising Algebra</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Translating Between Word Descriptions and Algebraic Expressions</a></li> <li>• <a href="#">Translating Between Authentic Situations and Algebraic Expressions</a></li> </ul> <p><b>5. Online Worksheets</b></p> <p><b>1. Introduction to Algebra</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Algebra Practice</a></li> <li>• <a href="#">Arithmetic Laws and Algebra</a></li> </ul>	<p><b>2. Substituting and Evaluating Algebraic Expressions</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Simplifying Algebraic Expressions Practice</a></li> <li>• <a href="#">Evaluating Algebraic Expressions Practice</a></li> <li>• <a href="#">Formulas Practice</a></li> </ul> <p><b>3. Contextualising Algebra</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Relating Words to Algebra Practice</a></li> </ul> <p><b>6. Further Resources</b></p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding I</a></li> <li>• <a href="#">Expanding II</a></li> </ul> <p>Hands-On Activities</p> <p>Finding Patterns and Making Fractals</p> <ul style="list-style-type: none"> <li>• <a href="#">Finding Patterns and Making Fractals</a></li> <li>• <a href="#">Finding Patterns and Making Fractals Student Worksheet</a></li> <li>• <a href="#">Finding Patterns and Making Fractals Teacher Guide</a></li> </ul> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Fractal Trees and Recursion (Year 7-10)</a></li> <li>• <a href="#">Patterns Found in Nature (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Algebraic Conventions</a></li> </ul>

Content Descriptor/s	EP Lessons in 2. <i>Linear and Non-Linear Relationships</i>	
<p>AC9M7A02 formulate algebraic expressions using constants, variables, operations and brackets</p> <p>AC9M7A03 solve one-variable linear equations with natural number solutions; verify the solution by substitution</p> <p>AC9M7A04 describe relationships between variables represented in graphs of functions from authentic data</p> <p>AC9M7A05 generate tables of values from visually growing patterns or the rule of a function; describe and plot these relationships on the Cartesian plane</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Number Lines, Axes and Coordinates</a></li> <li>• <a href="#">Quadrants of Cartesian Planes</a></li> <li>• <a href="#">Coordinates</a></li> <li>• <a href="#">Order of Operations</a></li> <li>• <a href="#">Applying the Order of Operations</a></li> </ul> <p>2. <i>Cartesian Planes</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Cartesian Planes</a></li> <li>• <a href="#">Coordinates</a></li> <li>• <a href="#">Plotting on a Cartesian Plane</a></li> </ul> <p>3. <i>Linear Graphs</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Drawing Graphs</a></li> <li>• <a href="#">Interpreting Graphs</a></li> <li>• <a href="#">Analysing Graphs</a></li> </ul> <p>4. <i>Solving Linear Equations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Balancing Equations</a></li> <li>• <a href="#">Concrete Models</a></li> <li>• <a href="#">Flow Charts</a></li> <li>• <a href="#">Visual Methods for Solving Linear Equations</a></li> <li>• <a href="#">Solving One-Step Linear Equations</a></li> <li>• <a href="#">Solving Two-Step Linear Equations</a></li> <li>• <a href="#">Solving Linear Equations with Brackets</a></li> <li>• <a href="#">Checking Solutions</a></li> </ul> <p>5. <i>Online Worksheets</i></p> <p>1. Cartesian Planes</p> <ul style="list-style-type: none"> <li>• <a href="#">Cartesian Planes Practice</a></li> <li>• <a href="#">Coordinates Practice</a></li> <li>• <a href="#">Plotting on a Cartesian Plane Practice</a></li> <li>• <a href="#">Plotting Points Practice</a></li> <li>• <a href="#">Applications of Cartesian Planes Practice</a></li> <li>• <a href="#">Cartesian Planes Mixed Practice</a></li> </ul>	<p>2. Linear Graphs</p> <ul style="list-style-type: none"> <li>• <a href="#">Drawing Graphs Practice</a></li> <li>• <a href="#">Reading Graphs Practice</a></li> <li>• <a href="#">Analysing Graphs Practice</a></li> <li>• <a href="#">Linear Graphs Mixed Practice</a></li> </ul> <p>3. Linear Equations</p> <ul style="list-style-type: none"> <li>• <a href="#">Balancing Equations Practice</a></li> <li>• <a href="#">Concrete Models and Flow Charts Practice</a></li> <li>• <a href="#">Visual Methods for Solving Linear Equations Practice</a></li> <li>• <a href="#">Solving Linear Equations with Visual Methods Practice</a></li> <li>• <a href="#">Solving One-Step Linear Equations Practice</a></li> <li>• <a href="#">Solving Two-Step Linear Equations Practice</a></li> <li>• <a href="#">Solving Linear Equations with Brackets Practice</a></li> <li>• <a href="#">Solving Linear Equations with Algebraic Methods Practice</a></li> <li>• <a href="#">Checking Solutions Practice</a></li> <li>• <a href="#">Solving Linear Equations Mixed Practice</a></li> </ul> <p>6. <i>Further Resources</i></p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Extension: Linear and Non-Linear Lines</a></li> <li>• <a href="#">Extension: Multiple Lines on Cartesian Planes</a></li> <li>• <a href="#">Extension: Plotting Linear Equations in Context</a></li> </ul>
		<p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 2. Linear and Non-Linear Relationships (continued from previous page)	
	<p>Hand-On Activities</p> <p>Physically Balancing Equations</p> <ul style="list-style-type: none"> <li>• <a href="#">Physically Balancing Equations</a></li> <li>• <a href="#">Physically Balancing Equations Student Worksheet</a></li> <li>• <a href="#">Physically Balancing Equations Teacher Guide</a></li> </ul> <p>Sinking Ships with Coordinates</p> <ul style="list-style-type: none"> <li>• <a href="#">Sinking Ships with Coordinates</a></li> <li>• <a href="#">Sinking Ships with Coordinates Student Worksheet</a></li> <li>• <a href="#">Sinking Ships with Coordinates Teacher Guide</a></li> </ul>	<p>Problem Solving</p> <ul style="list-style-type: none"> <li>• <a href="#">Applications of Cartesian Planes</a></li> <li>• <a href="#">Opening a New Aquarium</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Definitions MCQ: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Spelling List: Linear and Non-Linear Relationships</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Cartesian Planes and Linear Graphs</a></li> <li>• <a href="#">Solving Linear Equations</a></li> </ul>

## Measurement

Content Descriptor/s	EP Lessons in 1. Measurement	
<p>AC9M7M01 solve problems involving the area of triangles and parallelograms using established formulas and appropriate units</p> <p>AC9M7M02 solve problems involving the volume of right prisms including rectangular and triangular prisms, using established formulas and appropriate units</p>	<p>1. Prior Learning</p> <p>1. Units</p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement</a></li> <li>• <a href="#">Converting Units of Length</a></li> <li>• <a href="#">Comparing Units of Length</a></li> <li>• <a href="#">Units of Capacity</a></li> <li>• <a href="#">Units of Mass</a></li> <li>• <a href="#">Applications of Converting Units of Capacity</a></li> <li>• <a href="#">Application of Converting Units of Mass</a></li> </ul> <p>2. Perimeter and Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Perimeter</a></li> <li>• <a href="#">Perimeter of Composite Shapes</a></li> <li>• <a href="#">Understanding the Area of a Rectangle</a></li> <li>• <a href="#">Calculating the Area of a Rectangle</a></li> <li>• <a href="#">Area of Composite Shapes</a></li> <li>• <a href="#">Area and Unknown Sides</a></li> </ul>	<p>2. Units of Measurement</p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Length</a></li> <li>• <a href="#">Converting Further Units of Length</a></li> <li>• <a href="#">Units of Mass</a></li> <li>• <a href="#">Converting Further Units of Mass and Applications</a></li> <li>• <a href="#">Converting Units of Capacity</a></li> <li>• <a href="#">Converting Further Units of Capacity and Applications</a></li> </ul> <p>3. Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Rectangles and Squares</a></li> <li>• <a href="#">Area of Triangles</a></li> <li>• <a href="#">Area of Parallelograms</a></li> <li>• <a href="#">Area of Composite Shapes</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Measurement (continued from previous page)	
	<p>4. Volume</p> <ul style="list-style-type: none"> <li>• <a href="#">Rectangular Prisms</a></li> <li>• <a href="#">Calculating Volume of Rectangular Prisms</a></li> <li>• <a href="#">Calculating Volume of Triangular Prisms</a></li> </ul> <p>5. Online Worksheets</p> <p>1. Units of Measurement</p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Length Practice</a></li> <li>• <a href="#">Units of Mass Practice</a></li> <li>• <a href="#">Units of Capacity Practice</a></li> <li>• <a href="#">Units of Measurement Mixed Practice</a></li> </ul> <p>2. Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Rectangles &amp; Squares Practice</a></li> <li>• <a href="#">Area of Triangles Practice</a></li> <li>• <a href="#">Area of Parallelograms Practice</a></li> <li>• <a href="#">Area of Composite Shapes Practice</a></li> <li>• <a href="#">Area Mixed Practice</a></li> </ul>	<p>3. Volume</p> <ul style="list-style-type: none"> <li>• <a href="#">Volume of Rectangular Prisms Practice</a></li> <li>• <a href="#">Volume of Composite Shapes Practice</a></li> <li>• <a href="#">Volume of Triangular Prisms Practice</a></li> <li>• <a href="#">Volume Mixed Practice</a></li> </ul> <p>6. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Using Units of Measurement</a></li> <li>• <a href="#">Definitions MCO: Using Units of Measurement</a></li> <li>• <a href="#">Spelling List: Using Units of Measurement</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Perimeter</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Angles	
<p>AC9M7M04 identify corresponding, alternate and co-interior relationships between angles formed when parallel lines are crossed by a transversal; use them to solve problems and explain reasons</p> <p>AC9M7M05 demonstrate that the interior angle sum of a triangle in the plane is <math>180^\circ</math> and apply this to determine the interior angle sum of other shapes and the size of unknown angles</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Points</a></li> <li>• <a href="#">Lines</a></li> <li>• <a href="#">Angles</a></li> <li>• <a href="#">Using Angles</a></li> </ul> <p>2. Points, Lines and Angles</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Angles</a></li> <li>• <a href="#">Angles around a Point</a></li> <li>• <a href="#">Parallel Lines</a></li> <li>• <a href="#">Angles around Parallel Lines</a></li> </ul>	<p>3. Online Worksheets</p> <p>1. Points, Lines and Angles</p> <ul style="list-style-type: none"> <li>• <a href="#">Types of Angles Practice</a></li> <li>• <a href="#">Angles Around a Point Practice</a></li> <li>• <a href="#">Angles Around Parallel Lines Practice</a></li> <li>• <a href="#">Angles, Points and Lines Mixed Practice</a></li> </ul> <p>4. Further Resources</p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Exterior Angles</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Angle Relationships</a></li> </ul>

# Space

Content Descriptor/s	EP Lessons in 1. Shapes and Solids	
<p>AC9M7SP01 represent objects in 2 dimensions; discuss and reason about the advantages and disadvantages of different representations</p> <p>AC9M7SP02 classify triangles, quadrilaterals and other polygons according to their side and angle properties; identify and reason about relationships</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"><li>• <a href="#">2D Shapes</a></li><li>• <a href="#">Quadrilaterals</a></li><li>• <a href="#">Circular Shapes</a></li><li>• <a href="#">Identifying Polygons</a></li><li>• <a href="#">Regular Polygons</a></li><li>• <a href="#">Irregular Polygons</a></li><li>• <a href="#">Composite Shapes</a></li><li>• <a href="#">Prisms</a></li><li>• <a href="#">Pyramids</a></li><li>• <a href="#">Curved Solids</a></li></ul> <p>2. <i>Shapes and Solids</i></p> <ul style="list-style-type: none"><li>• <a href="#">Introduction to Solids</a></li><li>• <a href="#">Drawing Prisms</a></li><li>• <a href="#">Drawing Pyramids</a></li><li>• <a href="#">Drawing Curved Solids</a></li></ul> <p>3. <i>Online Worksheets</i></p> <ul style="list-style-type: none"><li>• <a href="#">3D Solids Practice</a></li><li>• <a href="#">Drawing Prisms and Pyramids Practice</a></li><li>• <a href="#">Drawing Curved Solids Practice</a></li><li>• <a href="#">Shapes and Solids Mixed Practice</a></li></ul> <p>4. <i>Further Resources</i></p> <p>Extension</p> <ul style="list-style-type: none"><li>• <a href="#">Extension: Composite Shapes</a></li><li>• <a href="#">Extension: Platonic Solids</a></li><li>• <a href="#">Extension: Polyhedra</a></li></ul> <p>Online Worksheets</p> <ul style="list-style-type: none"><li>• <a href="#">Extension Mixed Practice</a></li><li>• <a href="#">Classifying Polyhedra Practice</a></li><li>• <a href="#">Composite Solids Practice</a></li><li>• <a href="#">Platonic Solids Practice</a></li></ul>	<p>Hands-On Activities</p> <p>Geoboard Tetris</p> <ul style="list-style-type: none"><li>• <a href="#">Geoboard Tetris</a></li><li>• <a href="#">Geoboard Tetris Student Worksheet</a></li><li>• <a href="#">Geoboard Tetris Teacher Guide</a></li><li>• <a href="#">Paper Geoboard Tetris Student Worksheet</a></li><li>• <a href="#">Printable Geoboard</a></li></ul> <p>Playdough Prisms</p> <ul style="list-style-type: none"><li>• <a href="#">Playdough Prisms</a></li><li>• <a href="#">Playdough Prisms Student Worksheet</a></li><li>• <a href="#">Playdough Prisms Teacher Guide</a></li><li>• <a href="#">Playdough Recipe</a></li></ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"><li>• <a href="#">Definitions List: Shape</a></li><li>• <a href="#">Definitions MCQ: Shape</a></li><li>• <a href="#">Spelling List: Shape</a></li></ul>

Content Descriptor/s	EP Lessons in <b>2. Transformation</b>	
<p>AC9M7SP03 describe transformations of a set of points using coordinates in the Cartesian plane, translations and reflections on an axis, and rotations about a given point</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Cartesian Coordinates</a></li> <li>• <a href="#">Translation on a Grid</a></li> <li>• <a href="#">Reflection on a Grid</a></li> <li>• <a href="#">Rotation on a Grid</a></li> </ul> <p><b>2. Symmetry</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Line Symmetry</a></li> <li>• <a href="#">Rotational Symmetry</a></li> </ul> <p><b>3. Transformations</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Cartesian Planes</a></li> <li>• <a href="#">Translation on Cartesian Planes</a></li> <li>• <a href="#">Reflection on Cartesian Planes</a></li> <li>• <a href="#">Rotation on Cartesian Planes</a></li> </ul> <p><b>4. Online Worksheets</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Symmetry Practice</a></li> <li>• <a href="#">Cartesian Coordinates Practice</a></li> <li>• <a href="#">Translation Practice</a></li> <li>• <a href="#">Reflection Practice</a></li> <li>• <a href="#">Rotation Practice</a></li> <li>• <a href="#">Transformations Mixed Practice</a></li> </ul>	<p><b>5. Further Resources</b></p> <p>Hands-On Activities</p> <ul style="list-style-type: none"> <li>• <a href="#">Transformation Golf</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Location and Transformation</a></li> <li>• <a href="#">Definitions MCQ: Location and Transformation</a></li> <li>• <a href="#">Spelling List: Transformations</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Symmetry</a></li> </ul>
Content Descriptor/s	EP Lessons in <b>3. Geometric Reasoning</b>	
<p>AC9M7SP02 classify triangles, quadrilaterals and other polygons according to their side and angle properties; identify and reason about relationships</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Triangles</a></li> <li>• <a href="#">Quadrilaterals</a></li> </ul> <p><b>2. Triangles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Types of Triangles</a></li> <li>• <a href="#">Angles in a Triangle</a></li> </ul> <p><b>3. Quadrilaterals</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Classifying Quadrilaterals</a></li> <li>• <a href="#">Angles in Quadrilaterals</a></li> <li>• <a href="#">Applying Rules to Quadrilaterals</a></li> </ul>	<p><b>4. Online Worksheets</b></p> <p>1. Triangles</p> <ul style="list-style-type: none"> <li>• <a href="#">Types of Triangles Practice</a></li> <li>• <a href="#">Angles in a Triangle Practice</a></li> <li>• <a href="#">Triangles Mixed Practice</a></li> </ul> <p>2. Quadrilaterals</p> <ul style="list-style-type: none"> <li>• <a href="#">Types of Quadrilaterals Practice</a></li> <li>• <a href="#">Angles in a Quadrilateral Practice</a></li> <li>• <a href="#">Quadrilaterals Mixed Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 3. Geometric Reasoning (continued from previous page)	
	<p>6. Further Resources</p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Extension: Geometric Reasoning</a></li> <li>• <a href="#">Extension: Triangles</a></li> </ul> <p>Hands-On Activities</p> <p>Angles Scavenger Hunt</p> <ul style="list-style-type: none"> <li>• <a href="#">Angles Scavenger Hunt</a></li> <li>• <a href="#">Angles Scavenger Hunt Student Worksheet</a></li> <li>• <a href="#">Angles Scavenger Hunt Teacher Guide</a></li> </ul>	<p>Triangles in the Real World</p> <ul style="list-style-type: none"> <li>• <a href="#">Triangles in the Real World</a></li> <li>• <a href="#">Triangles in the Real World Student Worksheet</a></li> <li>• <a href="#">Triangles in the Real World Teacher Guide</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Geometric Reasoning</a></li> <li>• <a href="#">Definitions MCQ: Geometric Reasoning</a></li> <li>• <a href="#">Spelling List: Geometric Reasoning</a></li> </ul>

## Probability

Content Descriptor/s	EP Lessons in 5. Probability	
<p>AC9M7P01 identify the sample space for single-stage events; assign probabilities to the outcomes of these events and predict relative frequencies for related events</p> <p>AC9M7P02 conduct repeated chance experiments and run simulations with a large number of trials using digital tools; compare predictions about outcomes with observed results, explaining the differences</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Fractions, Decimals and Percentages</a></li> <li>• <a href="#">Likelihood</a></li> <li>• <a href="#">Proportional Reasoning</a></li> <li>• <a href="#">Theoretical Probability</a></li> <li>• <a href="#">Experimental Probability</a></li> </ul> <p>2. Probability</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Likelihood</a></li> <li>• <a href="#">Introduction to Probability</a></li> <li>• <a href="#">Comparing Probabilities</a></li> <li>• <a href="#">Probability Terminology</a></li> <li>• <a href="#">Types of Probability</a></li> <li>• <a href="#">Calculating Probability</a></li> <li>• <a href="#">Experimental Probability</a></li> <li>• <a href="#">Probability Summary</a></li> </ul>	<p>3. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Chance Practice</a></li> <li>• <a href="#">Introduction to Probability Practice</a></li> <li>• <a href="#">Finding Probabilities Practice</a></li> <li>• <a href="#">Experimental Probability Practice</a></li> <li>• <a href="#">Chance Mixed Practice</a></li> </ul> <p>4. Further Resources</p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Rearranging Equations</a></li> <li>• <a href="#">Rearranging the Experimental Probability Equation</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 5. Probability (continued from previous page)	
	<p>Hands-On Activities</p> <p>A Chance of Rain</p> <ul style="list-style-type: none"> <li>• <a href="#">A Chance of Rain</a></li> <li>• <a href="#">A Chance of Rain Student Worksheet</a></li> <li>• <a href="#">A Chance of Rain Teacher Guide</a></li> </ul> <p>A Tree Snake Chance Game</p> <ul style="list-style-type: none"> <li>• <a href="#">A Tree Snake Chance Game</a></li> <li>• <a href="#">A Tree Snake Chance Game Student Worksheet</a></li> <li>• <a href="#">A Tree Snake Chance Game Teacher Guide</a></li> </ul> <p>Maths in Context</p> <p><a href="#">Unfortunate Events (Year 5-10)</a></p>	<p>Problem Solving</p> <ul style="list-style-type: none"> <li>• <a href="#">Exploring Outcomes</a></li> <li>• <a href="#">The Probability of Observations</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Chance</a></li> <li>• <a href="#">Definitions MCQ: Chance</a></li> <li>• <a href="#">Spelling List: Chance</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Finding Probability</a></li> <li>• <a href="#">Introduction to Probability</a></li> </ul>



# Statistics

Content Descriptor/s	EP Lessons in <i>6. Statistics</i>	
<p>AC9M7ST01 acquire data sets for discrete and continuous numerical variables and calculate the range, median, mean and mode; make and justify decisions about which measures of central tendency provide useful insights into the nature of the distribution of data</p> <p>AC9M7ST02 create different types of numerical data displays including stem-and-leaf plots using software where appropriate; describe and compare the distribution of data, commenting on the shape, centre and spread including outliers and determining the range, median, mean and mode</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Tallies and Tables</a></li> <li>• <a href="#">Column (Bar) Graphs</a></li> <li>• <a href="#">Side-by-Side Column Graphs</a></li> <li>• <a href="#">Relating Graphs and Tables</a></li> <li>• <a href="#">Misleading Data and Graphs</a></li> </ul> <p><i>2. Introduction to Data</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Types of Data</a></li> <li>• <a href="#">Collecting Data: Primary and Secondary</a></li> <li>• <a href="#">Analysing Numerical Data</a></li> </ul> <p><i>3. Measures of Centre and Spread</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Mean</a></li> <li>• <a href="#">Median</a></li> <li>• <a href="#">Mode</a></li> <li>• <a href="#">Comparing Measures of Centre</a></li> <li>• <a href="#">The Range</a></li> <li>• <a href="#">Calculating Measures of Centre and Spread</a></li> </ul> <p><i>4. Displaying Data</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Displaying Data</a></li> <li>• <a href="#">Selecting Appropriate Graphs</a></li> <li>• <a href="#">Dot Plots and Column (Bar) Graphs</a></li> <li>• <a href="#">Introduction to Stem and Leaf Plots</a></li> <li>• <a href="#">Line Graphs</a></li> <li>• <a href="#">Pie Charts and Divided Bar Graphs</a></li> <li>• <a href="#">Histograms</a></li> <li>• <a href="#">Finding Measures of Centre and Spread in Data Displays</a></li> <li>• <a href="#">Creating an Infographic</a></li> <li>• <a href="#">Outliers</a></li> </ul>	<p><i>5. Online Worksheets</i></p> <p>1. Introduction to Data</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Data Practice</a></li> <li>• <a href="#">Collecting Data Practice</a></li> <li>• <a href="#">Introduction to Data Mixed Practice</a></li> </ul> <p>2. Measures of Centre and Spread</p> <ul style="list-style-type: none"> <li>• <a href="#">The Mean Practice</a></li> <li>• <a href="#">The Median Practice</a></li> <li>• <a href="#">The Mode Practice</a></li> <li>• <a href="#">Comparing Measures of Centre Practice</a></li> <li>• <a href="#">The Range Practice</a></li> <li>• <a href="#">Calculating Measures of Centre and Spread Practice</a></li> <li>• <a href="#">Mean, Median and Mode Mixed Practice</a></li> </ul> <p>3. Displaying Data</p> <ul style="list-style-type: none"> <li>• <a href="#">Displaying Data Practice</a></li> <li>• <a href="#">Pick Your Display Method Practice</a></li> <li>• <a href="#">Dot Plots and Column Graphs Practice</a></li> <li>• <a href="#">Stem and Leaf Plots Practice</a></li> <li>• <a href="#">Line Graphs Practice</a></li> <li>• <a href="#">Pie Charts and Divided Bar Graphs Practice</a></li> <li>• <a href="#">Histograms Practice</a></li> <li>• <a href="#">Finding Measures of Centre and Spread in Data Displays Practice</a></li> <li>• <a href="#">Outliers Practice</a></li> <li>• <a href="#">Displaying Data Mixed Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 6. Statistics (continued from previous page)	
	<p>6. Further Resources</p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Extension: Data Representation and Interpretation</a></li> <li>• <a href="#">Extension: Dot Plots</a></li> <li>• <a href="#">Extension: Stem and Leaf Plots</a></li> </ul> <p>Hands-On Activities</p> <ul style="list-style-type: none"> <li>• <a href="#">Lolly Graphs</a></li> <li>• <a href="#">Lolly Graphs Student Worksheet</a></li> <li>• <a href="#">Lolly Graphs Teacher Guide</a></li> </ul> <p>Problem Solving</p> <ul style="list-style-type: none"> <li>• <a href="#">Scrambled Statistics</a></li> </ul>	<p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Data Representation and Interpretation</a></li> <li>• <a href="#">Definitions MCO: Data Representation and Interpretation</a></li> <li>• <a href="#">Spelling List: Data Representation and Interpretation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Data Displays</a></li> <li>• <a href="#">Mean, Median, Mode and Range</a></li> </ul>

## Year 07 Pre-Tests and Post-Tests

Content Descriptor/s	EP Lessons	
	<p>1. Pre-Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Year 07 Number Pre-Test</a></li> <li>• <a href="#">Year 07 Algebra Pre-Test</a></li> <li>• <a href="#">Year 07 Measurement Pre-Test</a></li> <li>• <a href="#">Year 07 Geometry Pre-Test</a></li> <li>• <a href="#">Year 07 Chance Pre-Test</a></li> <li>• <a href="#">Year 07 Data Pre-Test</a></li> </ul>	<p>2. Post-Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Year 07 Number Post-Test</a></li> <li>• <a href="#">Year 07 Algebra Post-Test</a></li> <li>• <a href="#">Year 07 Measurement Post-Test</a></li> <li>• <a href="#">Year 07 Geometry Post-Test</a></li> <li>• <a href="#">Year 07 Chance Post-Test</a></li> <li>• <a href="#">Year 07 Data Post-Test</a></li> </ul>

# Year 8

## Number

Content Descriptor/s	EP Lessons in <i>1. Real Numbers and Integers</i>	
<p>AC9M8N01 recognise irrational numbers in applied contexts, including square roots and <math>\pi</math></p> <p>AC9M8N03 recognise terminating and recurring decimals, using digital tools as appropriate</p> <p>AC9M8N04 use the 4 operations with integers and with rational numbers, choosing and using efficient strategies and digital tools where appropriate</p> <p>AC9M8N05 use mathematical modelling to solve practical problems involving rational numbers and percentages, including financial contexts; formulate problems, choosing efficient calculation strategies and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, reviewing the appropriateness of the model</p>	<p><i>1. Prior Learning</i></p> <p>1. Fractions</p> <p>1. Introduction to Fractions</p> <ul style="list-style-type: none"><li>• <a href="#">Fraction Basics</a></li><li>• <a href="#">Equivalent Fractions</a></li><li>• <a href="#">Mixed Numbers</a></li><li>• <a href="#">Fraction Walls</a></li><li>• <a href="#">Fractions and Number Lines</a></li></ul> <p>2. Adding Fractions</p> <ul style="list-style-type: none"><li>• <a href="#">Adding Fractions with the Same Denominator</a></li><li>• <a href="#">Adding Mixed Fractions with the Same Denominator</a></li><li>• <a href="#">Adding Fractions with a Different Denominator</a></li></ul> <p>3. Subtracting Fractions</p> <ul style="list-style-type: none"><li>• <a href="#">Subtracting Fractions with the Same Denominator</a></li><li>• <a href="#">Subtracting Fractions with a Different Denominator</a></li><li>• <a href="#">Subtracting Mixed Fractions with the Same Denominator</a></li><li>• <a href="#">Subtracting Mixed Fractions with a Different Denominator</a></li></ul>	<p>4. Multiplying and Dividing Fractions</p> <ul style="list-style-type: none"><li>• <a href="#">Multiplying Fractions Numerically</a></li><li>• <a href="#">Multiplying Fractions Using Models</a></li><li>• <a href="#">Dividing Fractions</a></li><li>• <a href="#">Dividing Fractions by Simplifying</a></li></ul> <p>5. Comparing and Using Fractions</p> <ul style="list-style-type: none"><li>• <a href="#">Comparing Fractions</a></li><li>• <a href="#">Comparing Fractions with the Same Denominator</a></li><li>• <a href="#">Using Fractions - Food</a></li><li>• <a href="#">Using Fractions - Money</a></li><li>• <a href="#">Using Fractions - Space</a></li></ul> <p>2. Decimals</p> <ul style="list-style-type: none"><li>• <a href="#">Adding and Subtracting Decimals</a></li><li>• <a href="#">Multiplying, Dividing and Rounding Decimals</a></li></ul> <p>3. Percentages</p> <ul style="list-style-type: none"><li>• <a href="#">Introduction to Percentages</a></li><li>• <a href="#">Using Percentages</a></li></ul> <p>4. Converting between Fractions, Decimals and Percentages</p> <ul style="list-style-type: none"><li>• <a href="#">Converting Percentages to Fractions</a></li><li>• <a href="#">Converting Between Percentages and Fractions</a></li><li>• <a href="#">Percentages and Decimals</a></li></ul>
<p><b>Resources continue on next page</b></p>		

**Content Descriptor/s (see previous page)**

**EP Lessons in 1. Real Numbers and Integers (continued from previous page)**

2. Decimals

- [Decimals](#)
- [Rational Numbers on the Number Line](#)
- [Adding and Subtracting Decimals on a Number Line](#)
- [Multiplying Decimals](#)
- [Dividing Decimals](#)
- [Terminating Decimals and Rounding](#)
- [Recurring Decimals](#)

3. Percentages

- [Percentages and Populations](#)

4. Irrational Numbers

- [Irrational Numbers](#)

5. Operations with Integers

- [Integers](#)
- [Addition](#)
- [Subtraction](#)
- [Multiplication](#)
- [Long Division](#)
- [Division](#)
- [Order of Operations](#)
- [Negative Integer Addition and Subtraction](#)
- [Negative Integer Multiplication and Division](#)

6. Online Worksheets

1. Decimals

- [Decimals Practice](#)
- [Recurring Decimals Practice](#)
- [Terminating Decimals and Rounding Practice](#)
- [Decimals Mixed Practice](#)

2. Percentages

- [Percentages and Populations Practice](#)

3. Irrational Numbers

- [Irrational Numbers Practice](#)

4. Integers

- [Addition and Subtraction Practice](#)
- [Addition and Subtraction Practice](#)
- [Multiplication and Division Practice](#)
- [Multiplication and Division Practice](#)
- [Mixed Operations Practice](#)
- [Mixed Operations Practice](#)

7. Further Resources

Maths in Context

- [Happy Pi Day! \(Year 5-10\)](#)
- [The Genetic Sudokube \(Year 8-10\)](#)

Spelling and Definitions

- [Definitions List: Decimals](#)
- [Definitions List: Irrational Numbers](#)
- [Definitions List: Percentages](#)
- [Definitions MCQ: Decimals](#)
- [Definitions MCQ: Irrational Numbers](#)
- [Definitions MCQ: Percentages](#)
- [Spelling List: Real Numbers](#)
- [Definitions List: Integers and Rational Numbers](#)
- [Definitions MCQ: Integers and Rational Numbers](#)
- [Spelling List: Number and Place Value](#)

<p><b>Content Descriptor/s</b></p> <p>AC9M8N02 establish and apply the exponent laws with positive integer exponents and the zero-exponent, using exponent notation with numbers</p>	<p><b>EP Lessons in 2. Indices</b></p> <p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Index Notation</a></li> <li>• <a href="#">Indices</a></li> <li>• <a href="#">Perfect Squares</a></li> </ul> <p>2. <i>Indices</i></p> <ul style="list-style-type: none"> <li>• <a href="#">The Power of Zero</a></li> <li>• <a href="#">Multiplying Indices</a></li>   <li>• <a href="#">Dividing Indices Practice</a></li> <li>• <a href="#">Power of Powers Practice</a></li> <li>• <a href="#">Powers of Multiplied Terms Practice</a></li> </ul> <p>4. <i>Further Resources</i></p> <p>1. Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Scientific Notation (Standard Form) - Large Numbers</a></li> <li>• <a href="#">Introduction to Scientific Notation (Standard Form) - Small Numbers</a></li> <li>• <a href="#">Ordering Numbers and Estimating</a></li> </ul> <ul style="list-style-type: none"> <li>• <a href="#">Dividing Indices</a></li> <li>• <a href="#">Powers of Powers</a></li> <li>• <a href="#">Powers of Multiplied Terms</a></li> <li>• <a href="#">Practising the Index Laws</a></li> </ul> <p>3. <i>Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Indices Practice</a></li> <li>• <a href="#">The Power of Zero Practice</a></li> <li>• <a href="#">Multiplying Indices Practice</a></li> <li>• <a href="#">Calculations in Scientific Notation (Standard Form)</a></li> <li>• <a href="#">Significant Figures and Scientific Notation (Standard Form)</a></li> <li>• <a href="#">Definitions List: Scientific Notation</a></li> </ul> <p>2. Spelling and Definitions</p> <p><a href="#">Definitions List: Indices</a></p> <p><a href="#">Definitions MCQ: Indices</a></p> <p>3. Topic Test</p> <p><a href="#">Multiplying and Dividing Indices</a></p>	
<p><b>Content Descriptor/s</b></p> <p>AC9M8N05 use mathematical modelling to solve practical problems involving rational numbers and percentages, including financial contexts; formulate problems, choosing efficient calculation strategies and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, reviewing the appropriateness of the model</p>	<p><b>EP Lessons in 3. Financial Contexts</b></p> <p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Percentages</a></li> <li>• <a href="#">Using Percentages</a></li> <li>• <a href="#">Budgeting and Usage Plans</a></li> <li>• <a href="#">Percentage Discounts and Unit Pricing</a></li> </ul> <p>Core Prior Knowledge</p> <p>Money</p> <ul style="list-style-type: none"> <li>• <a href="#">Australian Money</a></li> <li>• <a href="#">Calculating Change</a></li> <li>• <a href="#">Converting Money</a></li> <li>• <a href="#">Count the Change</a></li> <li>• <a href="#">International Money</a></li> <li>• <a href="#">Money</a></li> <li>• <a href="#">Shopping</a></li> </ul> <p>Number</p> <ul style="list-style-type: none"> <li>• <a href="#">Addition</a></li> <li>• <a href="#">Area Models</a></li> <li>• <a href="#">Counting</a></li> <li>• <a href="#">Expanding Numbers</a></li> <li>• <a href="#">Half</a></li> <li>• <a href="#">Multiplication</a></li> <li>• <a href="#">Numbers in Written Form</a></li> <li>• <a href="#">Place Values</a></li> <li>• <a href="#">Quarters and Eighths</a></li> <li>• <a href="#">Subtraction</a></li> <li>• <a href="#">What is a Number?</a></li> </ul> <p><b>Resources continue on next page</b></p>	

Content Descriptor/s (see previous page)	EP Lessons in 3. Financial Contexts (continued from previous page)	
	<p>2. Financial Mathematics</p> <ul style="list-style-type: none"> <li>• <a href="#">Profit and Loss</a></li> <li>• <a href="#">Calculating Profit and Loss</a></li> <li>• <a href="#">Discounts</a></li> <li>• <a href="#">Calculating Discounts</a></li> <li>• <a href="#">Percentage Discounts and Unit Pricing</a></li> <li>• <a href="#">Calculating Percentage Discounts</a></li> <li>• <a href="#">Percentages and Money</a></li> <li>• <a href="#">Budgeting and Usage Plans</a></li> <li>• <a href="#">Supply Chains</a></li> </ul> <p>3. Tax</p> <ul style="list-style-type: none"> <li>• <a href="#">Goods and Services Tax</a></li> <li>• <a href="#">Income Tax</a></li> </ul> <p>4. Simple Interest</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Interest</a></li> <li>• <a href="#">Calculating Simple Interest</a></li> <li>• <a href="#">Rearranging the Simple Interest Formula</a></li> </ul>	<p>5. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Profit and Loss Practice</a></li> <li>• <a href="#">Calculating Profit and Loss Practice</a></li> <li>• <a href="#">Discounts Practice</a></li> <li>• <a href="#">Calculating Percentage Discounts Practice</a></li> <li>• <a href="#">Percentages and Money Practice</a></li> <li>• <a href="#">Supply Chains Practice</a></li> </ul> <p>6. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Financial Mathematics</a></li> <li>• <a href="#">Definitions MCQ: Financial Mathematics</a></li> <li>• <a href="#">Spelling List: Money and Financial Mathematics</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Discounts and GST</a></li> </ul>

## Algebra

Content Descriptor/s	EP Lessons in 1. Algebra Foundations	
<p>AC9M8A01 create, expand, factorise, rearrange and simplify linear expressions, applying the associative, commutative, identity, distributive and inverse properties</p> <p>AC9M8A03 use mathematical modelling to solve applied problems involving linear relations, including financial contexts; formulate problems with linear functions, choosing a representation; interpret and communicate solutions in terms of the situation, reviewing the appropriateness of the model</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Substitution</a></li> <li>• <a href="#">Substitution in Algebraic Expressions</a></li> <li>• <a href="#">Evaluating Algebraic Expressions</a></li> <li>• <a href="#">Arithmetic in Algebra</a></li> <li>• <a href="#">Order of Operations in Algebra</a></li> <li>• <a href="#">Order of Operations in Algebraic Equations</a></li> <li>• <a href="#">Variables, Conventions and Arithmetic</a></li> <li>• <a href="#">Simplifying Expressions</a></li> <li>• <a href="#">Evaluating Expressions and Using Formulas</a></li> </ul>	<p>2. Expanding</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Expanding</a></li> <li>• <a href="#">Expanding</a></li> <li>• <a href="#">Further Expanding</a></li> </ul> <p>3. Factorising</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Factorising</a></li> <li>• <a href="#">Greatest Common Divisor (Highest Common Factor)</a></li> <li>• <a href="#">Factorising Algebraic Expressions</a></li> <li>• <a href="#">Factorising Algebraic Expressions with Powers</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Algebra Foundations (continued from previous page)	
	<p>4. Simplifying</p> <ul style="list-style-type: none"> <li>• <a href="#">Simplifying Addition and Subtraction</a></li> <li>• <a href="#">Simplifying Multiplication and Division</a></li> </ul> <p>5. Associative, Commutative and Distributive Laws</p> <ul style="list-style-type: none"> <li>• <a href="#">The Commutative Law</a></li> <li>• <a href="#">The Associative Law</a></li> <li>• <a href="#">The Distributive Law</a></li> <li>• <a href="#">Using the Distributive Law</a></li> </ul> <p>6. Word Problems</p> <ul style="list-style-type: none"> <li>• <a href="#">Writing and Evaluating Algebraic Expressions</a></li> <li>• <a href="#">Translating Between Situations and Algebraic Expressions</a></li> </ul> <p>6. Online Worksheets</p> <p>1. Expanding</p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding Practice</a></li> <li>• <a href="#">Expanding with the Distributive Law Practice</a></li> <li>• <a href="#">Expanding with Powers Practice</a></li> </ul> <p>2. Factorising</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Factorising Practice</a></li> <li>• <a href="#">Greatest Common Divisor (Highest Common Factor) Practice</a></li> <li>• <a href="#">Factorising Algebraic Expressions Practice</a></li> <li>• <a href="#">Factorising Algebraic Expressions with Powers Practice</a></li> </ul> <p>3. Simplifying</p> <ul style="list-style-type: none"> <li>• <a href="#">Simplifying Addition and Subtraction Practice</a></li> <li>• <a href="#">Simplifying Multiplication and Division Practice</a></li> </ul>	<p>4. Associative, Commutative and Distributive Laws</p> <ul style="list-style-type: none"> <li>• <a href="#">Commutative Law Practice</a></li> <li>• <a href="#">Associative Law Practice</a></li> <li>• <a href="#">Distributive Law Practice</a></li> <li>• <a href="#">Arithmetic Laws Mixed Practice</a></li> </ul> <p>5. Word Problems</p> <ul style="list-style-type: none"> <li>• <a href="#">Writing and Evaluating Algebraic Expressions Practice</a></li> <li>• <a href="#">Translating Between Situations and Algebraic Expressions Practice</a></li> </ul> <p>7. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Fractal Trees and Recursion (Year 7-10)</a></li> <li>• <a href="#">Patterns Found in Nature (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul>

Content Descriptor/s	EP Lessons in <b>2. Linear Relations</b>	
<p>AC9M8A02 graph linear relations on the Cartesian plane using digital tools where appropriate; solve linear equations and one-variable inequalities using graphical and algebraic techniques; verify solutions by substitution</p> <p>AC9M8A04 experiment with linear functions and relations using digital tools, making and testing conjectures and generalising emerging patterns</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Tables of Values</a></li> <li>• <a href="#">Cartesian Planes</a></li> <li>• <a href="#">Introduction to Linear Equations</a></li> </ul> <p><i>2. Linear Graphs</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Plotting Linear Relationships</a></li> <li>• <a href="#">Analysing Travel Graphs</a></li> <li>• <a href="#">Water Evaporation Graphs</a></li> <li>• <a href="#">Features of Graphs</a></li> <li>• <a href="#">Gradient of a Line</a></li> <li>• <a href="#">Equation of a Line</a></li> <li>• <a href="#">Linear Patterns and Rules</a></li> <li>• <a href="#">Solving Equations Using Graphical Methods</a></li> <li>• <a href="#">Reading Graphs</a></li> <li>• <a href="#">Analysing Linear Graphs</a></li> <li>• <a href="#">Plotting and Reading Travel Graphs</a></li> </ul> <p><i>3. Solving Linear Equations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Arithmetic in Algebra</a></li> <li>• <a href="#">Order of Operations in Algebra</a></li> <li>• <a href="#">Order of Operations in Algebraic Equations</a></li> <li>• <a href="#">Non-Integer Solutions to Linear Equations</a></li> <li>• <a href="#">Rearranging Equations</a></li> <li>• <a href="#">Solving Using Algebraic Methods</a></li> <li>• <a href="#">Solving Using Graphical Methods</a></li> <li>• <a href="#">Applications of Linear Equations</a></li> </ul>	<p><i>4. Online Worksheets</i></p> <p><i>1. Linear Graphs</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Features of Linear Graphs Practice</a></li> <li>• <a href="#">Linear Equations and the Gradient Practice</a></li> <li>• <a href="#">Linear Equations and the y-intercept Practice</a></li> <li>• <a href="#">Reading Graphs Practice</a></li> <li>• <a href="#">Travel Graphs Practice</a></li> <li>• <a href="#">Comparing Graphs Practice</a></li> <li>• <a href="#">Rearranging Linear Equations Practice</a></li> </ul> <p><i>2. Linear Equations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Linear Equations Practice</a></li> <li>• <a href="#">Linear Equations and the Gradient Practice</a></li> <li>• <a href="#">Linear Equations and the y-intercept Practice</a></li> </ul> <p><i>5. Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Definitions MCQ: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Spelling List: Linear and Non-Linear Relationships</a></li> </ul>



# Measurement

Content Descriptor/s	EP Lessons in 1. Measurement	
<p>AC9M8M01 solve problems involving the area and perimeter of irregular and composite shapes using appropriate units</p> <p>AC9M8M02 solve problems involving the volume and capacity of right prisms using appropriate units</p> <p>AC9M8M03 solve problems involving the circumference and area of a circle using formulas and appropriate units</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Measurement</a></li> <li>• <a href="#">Perimeter</a></li> <li>• <a href="#">Perimeters of Composite Shapes</a></li> <li>• <a href="#">Area</a></li> <li>• <a href="#">Volume of Rectangular Prisms</a></li> </ul> <p><b>2. Converting Units of Measure</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Area</a></li> <li>• <a href="#">Converting Between Units of Area</a></li> <li>• <a href="#">Converting Between Units of Area Applications</a></li> <li>• <a href="#">Choosing Appropriate Units of Volume</a></li> <li>• <a href="#">Converting Units of Volume</a></li> </ul> <p><b>3. Perimeter</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Perimeter</a></li> <li>• <a href="#">Perimeters of Kites, Rhombuses, Trapeziums and Parallelograms</a></li> <li>• <a href="#">Perimeter and Circumference of Composite Shapes</a></li> </ul> <p><b>4. Area</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Rectangles &amp; Squares</a></li> <li>• <a href="#">Area of Triangles</a></li> <li>• <a href="#">Area of Parallelograms</a></li> <li>• <a href="#">Area of Rhombuses and Kites</a></li> <li>• <a href="#">Area of Trapeziums</a></li> <li>• <a href="#">Area of Composite Shapes I</a></li> <li>• <a href="#">Area of Composite Shapes II</a></li> </ul>	<p><b>5. Circles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Parts of a Circle</a></li> <li>• <a href="#">Circumference of Circles</a></li> <li>• <a href="#">Using the Circumference of Circles</a></li> <li>• <a href="#">Calculating the Area of Circles</a></li> <li>• <a href="#">Using the Area of Circles</a></li> <li>• <a href="#">Constructing Circles</a></li> </ul> <p><b>6. Volume</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Rectangular Prisms</a></li> <li>• <a href="#">Types of Prisms</a></li> <li>• <a href="#">Calculating Volume of Triangular Prisms</a></li> </ul> <p><b>7. Online Worksheets</b></p> <p><b>1. Converting Units of Measurement</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Units of Area Practice</a></li> <li>• <a href="#">Converting between Units of Area Practice</a></li> <li>• <a href="#">Converting between Units of Area Applications Practice</a></li> <li>• <a href="#">Units of Volume Practice</a></li> <li>• <a href="#">Converting Units of Volume Practice</a></li> <li>• <a href="#">Units Mixed Practice</a></li> </ul> <p><b>2. Perimeter</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Perimeters of Kites, Rhombuses, Trapeziums and Parallelograms Practice</a></li> </ul> <p><b>3. Area</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Parallelograms Practice</a></li> <li>• <a href="#">Area of Rhombus and Kites Practice</a></li> <li>• <a href="#">Area of Trapeziums Practice</a></li> <li>• <a href="#">Area Mixed Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Measurement (continued from previous page)	
	<p>4. Circles</p> <ul style="list-style-type: none"> <li>• <a href="#">Parts of a Circle Practice</a></li> <li>• <a href="#">Circumference of Circles Practice</a></li> <li>• <a href="#">Using the Circumference of Circles Practice</a></li> <li>• <a href="#">Calculating the Area of Circles Practice</a></li> <li>• <a href="#">Using the Area of Circles Practice</a></li> <li>• <a href="#">Circles Mixed Practice</a></li> </ul> <p>5. Volume</p> <ul style="list-style-type: none"> <li>• <a href="#">Types of Prisms Practice</a></li> <li>• <a href="#">Triangular Prisms Practice</a></li> </ul> <p>8. Further Resources</p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Calculating Volume of Cylinders</a></li> <li>• <a href="#">Cylinder Exercises Practice</a></li> <li>• <a href="#">Volume of Cylinders Practice</a></li> <li>• <a href="#">Volume of Composite Shapes</a></li> <li>• <a href="#">Calculating Volume of Other Regular and Irregular Prisms</a></li> <li>• <a href="#">Volume of Other Regular and Irregular Prisms Practice</a></li> </ul>	<p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Measurement</a></li> <li>• <a href="#">Definitions MCQ: Measurement</a></li> <li>• <a href="#">Spelling List: Measurement</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Calculating Volume</a></li> <li>• <a href="#">Perimeter</a></li> <li>• <a href="#">Units of Area</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Time	
AC9M8M04 solve problems involving duration, including using 12- and 24-hour time across multiple time zones	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Days, Months, Seasons</a></li> <li>• <a href="#">Everyday Units of Time</a></li> <li>• <a href="#">Adding Units of Time</a></li> <li>• <a href="#">Timetables and Transport</a></li> <li>• <a href="#">Personal Timetables Introduction</a></li> <li>• <a href="#">Timetables</a></li> <li>• <a href="#">Timetables and Transport Introduction</a></li> </ul> <p>2. Time</p> <ul style="list-style-type: none"> <li>• <a href="#">Clocks</a></li> <li>• <a href="#">Duration</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Converting Between 12- and 24- Hour Time</a></li> <li>• <a href="#">Timetables</a></li> <li>• <a href="#">Time Zones</a></li> </ul> <p>3. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Clocks Practice</a></li> <li>• <a href="#">Duration Practice</a></li> <li>• <a href="#">Timetables Practice</a></li> <li>• <a href="#">Time Zones Practice</a></li> </ul>

	<ul style="list-style-type: none"> <li>• <a href="#">12-Hour Time</a></li> <li>• <a href="#">24-Hour Time</a></li> </ul>	
<b>Content Descriptor/s</b>	<b>EP Lessons in 3. Ratios and Rates</b>	
AC9M8M05 recognise and use rates to solve problems involving the comparison of 2 related quantities of different units of measure	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Ratios Introduction</a></li> <li>• <a href="#">Ratios</a></li> </ul> <p>2. <i>Ratios and Rates</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Ratios</a></li> <li>• <a href="#">Rates</a></li> <li>• <a href="#">Applying Ratios and Rates</a></li> </ul> <p>3. <i>Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Ratios Practice</a></li> <li>• <a href="#">Rates Practice</a></li> <li>• <a href="#">Applying Rates and Ratios Practice</a></li> <li>• <a href="#">Ratios and Rates Mixed Practice</a></li> </ul>	<p>4. <i>Further Resources</i></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Ratios and Rates</a></li> <li>• <a href="#">Definitions MCQ: Ratios and Rates</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Rates and Ratios</a></li> </ul>
<b>Content Descriptor/s</b>	<b>EP Lessons in 4. Pythagoras' Theorem</b>	
AC9M8M06 use Pythagoras' theorem to solve problems involving the side lengths of right-angled triangles	<p>1. <i>Pythagoras' Theorem</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Parts of a Triangle and the Hypotenuse</a></li> <li>• <a href="#">Pythagoras' Theorem</a></li> </ul>	<p>2. <i>Further Resources</i></p> <p>Extended Investigations</p> <ul style="list-style-type: none"> <li>• <a href="#">Building with Pythagoras</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Pythagoras' Theorem</a></li> </ul>

# Space

Content Descriptor/s	EP Lessons in <b>1. Congruence and Similarity</b>	
<p>AC9M8SP01 identify the conditions for congruence and similarity of triangles and explain the conditions for other sets of common shapes to be congruent or similar, including those formed by transformations</p> <p>AC9M8SP02 establish properties of quadrilaterals using congruent triangles and angle properties, and solve related problems explaining reasoning</p> <p>AC9M8SP04 design, create and test algorithms involving a sequence of steps and decisions that identify congruency or similarity of shapes, and describe how the algorithm works</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles</a></li> <li>• <a href="#">Symmetry</a></li> <li>• <a href="#">Triangles</a></li> <li>• <a href="#">Properties of Quadrilaterals</a></li> <li>• <a href="#">Translation</a></li> <li>• <a href="#">Reflection</a></li> <li>• <a href="#">Rotation</a></li> <li>• <a href="#">Transforming Shapes</a></li> </ul> <p><b>2. Congruence and Transformation of Plane Shapes</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Congruence</a></li> <li>• <a href="#">Translation and Congruence of Plane Shapes</a></li> <li>• <a href="#">Rotation and Reflection of Plane Shapes</a></li> </ul> <p><b>3. Congruence of Triangles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles in a Triangle</a></li> <li>• <a href="#">Conditions for Congruence: SSS and SAS</a></li> <li>• <a href="#">Conditions for Congruence: ASA, AAS and HL</a></li> <li>• <a href="#">Working with Congruent Triangles</a></li> </ul> <p><b>4. Congruence of Quadrilaterals</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Applying Rules to Quadrilaterals</a></li> <li>• <a href="#">Classifying Quadrilaterals</a></li> <li>• <a href="#">Congruence of Squares, Rectangles and Parallelograms</a></li> <li>• <a href="#">Congruence of Rhombuses, Trapeziums and Kites</a></li> </ul> <p><b>5. Similarity</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Similarity</a></li> <li>• <a href="#">Similarity Tests</a></li> <li>• <a href="#">Similarity and Angles</a></li> <li>• <a href="#">Similarity and Multiple Triangles</a></li> </ul>	<p><b>6. Applications</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Applications of Geometric Reasoning</a></li> </ul> <p><b>7. Online Worksheets</b></p> <p><b>1. Congruence and Transformation of Plane Shapes</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Translation and Congruence of Plane Shapes Practice</a></li> <li>• <a href="#">Rotation and Reflection of Plane Shapes Practice</a></li> <li>• <a href="#">Practice: Rotation</a></li> <li>• <a href="#">Practice: Reflection</a></li> <li>• <a href="#">Practice: Translation</a></li> </ul> <p><b>2. Congruence of Triangles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Triangles Practice</a></li> <li>• <a href="#">SSS and SAS Congruence Tests Practice</a></li> <li>• <a href="#">ASA, AAS and HL Congruence Tests Practice</a></li> <li>• <a href="#">Working with Congruent Triangles Practice</a></li> </ul> <p><b>3. Congruence of Quadrilaterals</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Types of Quadrilaterals Practice</a></li> <li>• <a href="#">Quadrilaterals Mixed Practice</a></li> <li>• <a href="#">Congruence of Squares, Rectangles and Parallelograms Practice</a></li> <li>• <a href="#">Congruence of Rhombuses, Trapeziums and Kites Practice</a></li> </ul> <p><b>4. Similarity</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Similarity Practice</a></li> <li>• <a href="#">Similarity Tests Practice</a></li> <li>• <a href="#">Similarity and Angles Practice</a></li> <li>• <a href="#">Similarity and Multiple Triangles Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Congruence and Similarity (continued from previous page)	
	5. Applications <ul style="list-style-type: none"> <li>• <a href="#">Applications of Geometric Reasoning Practice</a></li> </ul> 8. Further Resources Maths in Context <ul style="list-style-type: none"> <li>• <a href="#">Mind-Boggling Paradoxes (Year 8-10)</a></li> </ul> Spelling and Definitions <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Geometric Reasoning</a></li> <li>• <a href="#">Definitions MCQ: Geometric Reasoning</a></li> <li>• <a href="#">Spelling List: Geometric Reasoning</a></li> </ul>	

## Probability

Content Descriptor/s	EP Lessons in 5. Probability	
<p>AC9M8P01 recognise that complementary events have a combined probability of one; use this relationship to calculate probabilities in applied contexts</p> <p>AC9M8P02 determine all possible combinations for 2 events, using two-way tables, tree diagrams and Venn diagrams, and use these to determine probabilities of specific outcomes in practical situations</p> <p>AC9M8P03 conduct repeated chance experiments and simulations, using digital tools to determine probabilities for compound events, and describe results</p>	1. Prior Learning <ul style="list-style-type: none"> <li>• <a href="#">Converting Between Fractions and Decimals</a></li> <li>• <a href="#">Converting Between Percentages and Fractions</a></li> <li>• <a href="#">Probability</a></li> <li>• <a href="#">Calculating Probability</a></li> <li>• <a href="#">Theoretical Probability</a></li> <li>• <a href="#">Experimental Probability</a></li> </ul> 2. Complementary Events <ul style="list-style-type: none"> <li>• <a href="#">Complementary Events</a></li> <li>• <a href="#">Calculating Complements</a></li> </ul> 3. Chance Tables and Diagrams <ul style="list-style-type: none"> <li>• <a href="#">Describing Probabilities</a></li> <li>• <a href="#">Using Descriptions of Probability</a></li> <li>• <a href="#">Venn Diagrams</a></li> <li>• <a href="#">Using Venn Diagrams</a></li> <li>• <a href="#">Making Your Own Venn Diagrams</a></li> <li>• <a href="#">Two-Way Tables</a></li> <li>• <a href="#">Using Two-Way Tables</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Making Your Own Two-Way Tables</a></li> <li>• <a href="#">Tree Diagrams</a></li> <li>• <a href="#">Using Tree Diagrams</a></li> </ul> 4. Further Resources <ol style="list-style-type: none"> <li>1. Maths in Context               <ul style="list-style-type: none"> <li>• <a href="#">Unfortunate Events (Year 5-10)</a></li> </ul> </li> <li>2. Problem Solving               <ul style="list-style-type: none"> <li>• <a href="#">Representing Data in Venn Diagrams</a></li> </ul> </li> <li>3. Hands-On Activities               <ul style="list-style-type: none"> <li>• <a href="#">Pancakes and Chai</a></li> <li>• <a href="#">Pancakes and Chai Student Worksheet</a></li> <li>• <a href="#">Pancakes and Chai Teacher Guide</a></li> </ul> </li> <li>4. Spelling and Definitions               <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Chance</a></li> <li>• <a href="#">Definitions MCQ: Chance</a></li> <li>• <a href="#">Spelling List: Chance</a></li> </ul> </li> <li>5. Topic Tests               <ul style="list-style-type: none"> <li>• <a href="#">Descriptions of Probability and Complementary Events</a></li> </ul> </li> </ol>

# Statistics

Content Descriptor/s	EP Lessons in <b>6. Statistics</b>	
<p>AC9M8ST01 investigate techniques for data collection including census, sampling, experiment and observation, and explain the practicalities and implications of obtaining data through these techniques</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Data Sources &amp; Data Types</a></li> <li>• <a href="#">Measures of Centre and Spread</a></li> <li>• <a href="#">Displays of Data</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Collecting Continuous Data</a></li> <li>• <a href="#">Samples and Populations</a></li> <li>• <a href="#">Implications and Consequences of Big Data</a></li> </ul>
<p>AC9M8ST02 analyse and report on the distribution of data from primary and secondary sources using random and non-random sampling techniques to select and study samples</p>	<p>2. <i>Introduction to Data</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Types of Data</a></li> <li>• <a href="#">Introduction to Data Collection</a></li> <li>• <a href="#">Data Collection Methods</a></li> <li>• <a href="#">Collecting Data: Primary and Secondary</a></li> <li>• <a href="#">Survey and Simulation</a></li> <li>• <a href="#">Experiment and Observation</a></li> </ul>	<p>6. <i>Analysing Data</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Frequency Tables and the Mean</a></li> <li>• <a href="#">Frequency Tables, Median and Mode</a></li> <li>• <a href="#">Frequency Tables with Grouped Data</a></li> <li>• <a href="#">Outliers</a></li> <li>• <a href="#">Clusters and Outliers</a></li> </ul>
<p>AC9M8ST03 compare variations in distributions and proportions obtained from random samples of the same size drawn from a population and recognise the effect of sample size on this variation</p>	<p>3. <i>Measures of Centre and Spread</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Mean</a></li> <li>• <a href="#">The Median</a></li> <li>• <a href="#">Mode</a></li> <li>• <a href="#">Comparing Measures of Centre</a></li> <li>• <a href="#">The Range</a></li> <li>• <a href="#">Calculating Measures of Centre and Spread</a></li> </ul>	<p>7. <i>Online Worksheets</i></p> <p>1. Introduction to Data</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Data Collection Practice</a></li> <li>• <a href="#">Data Collection Methods Practice</a></li> <li>• <a href="#">Surveys and Simulations Practice</a></li> <li>• <a href="#">Experiment and Observation Practice</a></li> <li>• <a href="#">Introduction to Data Methods Mixed Practice</a></li> </ul>
<p>AC9M8ST04 plan and conduct statistical investigations involving samples of a population; use ethical and fair methods to make inferences about the population and report findings, acknowledging uncertainty</p>	<p>4. <i>Displaying Data</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Displaying Data</a></li> <li>• <a href="#">Choosing an Appropriate Data Display</a></li> <li>• <a href="#">Dot Plots and Column (Bar) Graphs</a></li> <li>• <a href="#">Histograms</a></li> <li>• <a href="#">Pie Charts and Divided Bar Graphs</a></li> <li>• <a href="#">Introduction to Stem and Leaf Plots</a></li> <li>• <a href="#">Line Graphs</a></li> </ul>	<p>2. Measures of Centre and Spread</p> <ul style="list-style-type: none"> <li>• <a href="#">The Mean Practice</a></li> <li>• <a href="#">The Median Practice</a></li> <li>• <a href="#">The Mode Practice</a></li> <li>• <a href="#">Comparing Measures of Centre Practice</a></li> <li>• <a href="#">The Range Practice</a></li> <li>• <a href="#">Calculating Measures of Centre and Spread Practice</a></li> <li>• <a href="#">Mean, Median and Mode Mixed Practice</a></li> </ul>
	<p>5. <i>Collecting Data</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Methods of Collecting Data</a></li> <li>• <a href="#">Introduction to Random Sampling</a></li> <li>• <a href="#">Bias in Data</a></li> <li>• <a href="#">Adding and Removing Data</a></li> </ul>	<p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in <b>6. Statistics</b> (continued from previous page)	
	<p>3. Displaying Data</p> <ul style="list-style-type: none"> <li>• <a href="#">Displaying Data Practice</a></li> <li>• <a href="#">Pick Your Display Method Practice</a></li> <li>• <a href="#">Dot Plots and Column Graphs Practice</a></li> <li>• <a href="#">Histograms Practice</a></li> <li>• <a href="#">Pie Charts and Divided Bar Graphs Practice</a></li> <li>• <a href="#">Stem and Leaf Plots Practice</a></li> <li>• <a href="#">Line Graphs Practice</a></li> </ul> <p>4. Collecting Data</p> <ul style="list-style-type: none"> <li>• <a href="#">Collecting Data Mixed Practice</a></li> <li>• <a href="#">Random Sampling Practice</a></li> <li>• <a href="#">Bias Practice</a></li> <li>• <a href="#">Surveys Practice</a></li> </ul> <p>5. Analysing Data</p> <ul style="list-style-type: none"> <li>• <a href="#">Frequency Tables and the Mean Practice</a></li> <li>• <a href="#">Frequency Tables, Median and Mode Practice</a></li> <li>• <a href="#">Frequency Tables with Grouped Data Practice</a></li> <li>• <a href="#">Outliers Practice</a></li> <li>• <a href="#">Clusters and Outliers Practice</a></li> <li>• <a href="#">Analysing Data Mixed Practice</a></li> </ul>	<p>8. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Data Representation and Interpretation</a></li> <li>• <a href="#">Definitions MCQ: Data Representation and Interpretation</a></li> <li>• <a href="#">Spelling List: Data Representation and Interpretation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Collecting Data</a></li> <li>• <a href="#">Data Displays</a></li> <li>• <a href="#">Investigating and Analysing Data</a></li> </ul>

## Year 08 Pre-Tests and Post-Tests

Content Descriptor/s	EP Lessons	
	<p>1. Pre-Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Year 08 Number Pre-Test</a></li> <li>• <a href="#">Year 08 Algebra Pre-Test</a></li> <li>• <a href="#">Year 08 Measurement Pre-Test</a></li> <li>• <a href="#">Year 08 Geometry Pre-Test</a></li> <li>• <a href="#">Year 08 Chance Pre-Test</a></li> <li>• <a href="#">Year 08 Data Pre-Test</a></li> </ul>	<p>2. Post-Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Year 08 Algebra Post-Test</a></li> <li>• <a href="#">Year 08 Chance Post-Test</a></li> <li>• <a href="#">Year 08 Data Post-Test</a></li> <li>• <a href="#">Year 08 Geometry Post-Test</a></li> <li>• <a href="#">Year 08 Measurement Post-Test</a></li> <li>• <a href="#">Year 08 Number Post-Test</a></li> </ul>

# Year 9

## Number

Content Descriptor/s	EP Lessons in <i>Indices</i>
<p>AC9M9A01 apply the exponent laws to numerical expressions with integer exponents and extend to variables</p> <p>AC9M9M02 solve problems involving very small and very large measurements, time scales and intervals expressed in scientific notation</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"><li>• <a href="#">Multiplying and Dividing Indices</a></li><li>• <a href="#">Powers of Powers and Multiplied Terms</a></li><li>• <a href="#">The Power of Zero</a></li><li>• <a href="#">Practising the Index Laws</a></li></ul> <p><i>2. Index Laws with Integer Bases</i></p> <ul style="list-style-type: none"><li>• <a href="#">Multiplying Indices</a></li><li>• <a href="#">Dividing Indices</a></li><li>• <a href="#">Powers of Powers</a></li><li>• <a href="#">Powers of Multiplied Terms</a></li><li>• <a href="#">The Power of Zero</a></li><li>• <a href="#">Applying Index Laws</a></li><li>• <a href="#">Positive and Negative Integer Indices</a></li><li>• <a href="#">Fractional Indices</a></li></ul> <p><i>3. Index Laws with Variables</i></p> <ul style="list-style-type: none"><li>• <a href="#">Multiplying Powers</a></li><li>• <a href="#">Dividing Powers</a></li><li>• <a href="#">The Zero Index</a></li><li>• <a href="#">Powers as the Base of Another Power</a></li><li>• <a href="#">Multiplication as the Base of a Power</a></li><li>• <a href="#">Division as the Base of a Power</a></li></ul> <p><i>4. Scientific Notation</i></p> <ul style="list-style-type: none"><li>• <a href="#">Introduction to Scientific Notation (Standard Form) - Large Numbers</a></li><li>• <a href="#">Introduction to Scientific Notation (Standard Form) - Small Numbers</a></li></ul> <ul style="list-style-type: none"><li>• <a href="#">Ordering Numbers and Estimating Calculations in Scientific Notation (Standard Form)</a></li><li>• <a href="#">Adding and Subtracting with Scientific Notation (Standard Form)</a></li><li>• <a href="#">Multiplying and Dividing in Scientific Notation (Standard Form)</a></li><li>• <a href="#">Significant Figures and Scientific Notation (Standard Form)</a></li><li>• <a href="#">Representing Very Large and Very Small Units</a></li></ul> <p><i>5. Online Worksheets</i></p> <p><i>1. Indices</i></p> <ul style="list-style-type: none"><li>• <a href="#">Applying Index Laws Practice</a></li><li>• <a href="#">Positive Integer Indices Practice</a></li><li>• <a href="#">Negative Integer Indices Practice</a></li><li>• <a href="#">Fractional Indices Practice</a></li></ul> <p><i>2. Index Laws with Variables</i></p> <ul style="list-style-type: none"><li>• <a href="#">Multiplying Powers Practice</a></li><li>• <a href="#">Dividing Powers Practice</a></li><li>• <a href="#">The Zero Index Practice</a></li><li>• <a href="#">Powers as the Base of Another Power Practice</a></li><li>• <a href="#">Multiplication as the Base of a Power Practice</a></li><li>• <a href="#">Division as the Base of a Power Practice</a></li></ul> <p><b>Resources continue on next page</b></p>



Content Descriptor/s (see previous page)	EP Lessons in <i>Indices</i> (continued from previous page)	
	<p>6. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Real Numbers</a></li> <li>• <a href="#">Definitions List: Scientific Notation</a></li> <li>• <a href="#">Definitions MCQ: Real Numbers</a></li> <li>• <a href="#">Spelling List: Real Numbers</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Index Laws</a></li> <li>• <a href="#">Numbers of Any Magnitude</a></li> </ul>	

## Algebra

Content Descriptor/s	EP Lessons in <i>1. Algebraic Techniques</i>	
<p>AC9M9A01 apply the exponent laws to numerical expressions with integer exponents and extend to variables</p> <p>AC9M9A02 simplify algebraic expressions, expand binomial products and factorise monic quadratic expressions</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding Algebraic Expressions</a></li> <li>• <a href="#">Factorising Algebraic Expressions</a></li> <li>• <a href="#">Simplifying Algebraic Expressions</a></li> </ul> <p>2. Simplifying and Evaluating Expressions</p> <ul style="list-style-type: none"> <li>• <a href="#">Simplifying Addition and Subtraction</a></li> <li>• <a href="#">Simplifying Multiplication and Division</a></li> <li>• <a href="#">Evaluating Algebraic Expressions</a></li> </ul> <p>3. Expanding</p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding and the Distributive Law</a></li> <li>• <a href="#">Expanding Binomial Products</a></li> <li>• <a href="#">Expanding Perfect Squares</a></li> <li>• <a href="#">Expanding Differences of Two Squares</a></li> </ul> <p>4. Factorising</p> <ul style="list-style-type: none"> <li>• <a href="#">Connecting Expanding and Factorising</a></li> <li>• <a href="#">Identifying Algebraic Factors</a></li> <li>• <a href="#">Identifying Complicated Algebraic Factors</a></li> <li>• <a href="#">Factorising</a></li> <li>• <a href="#">Factorisation Patterns</a></li> <li>• <a href="#">Factorising Quadratic Expressions</a></li> </ul>	<p>5. Online Worksheets</p> <p>1. Expanding</p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding and the Distributive Law Practice</a></li> <li>• <a href="#">Expanding Binomial Products Practice</a></li> <li>• <a href="#">Expanding Perfect Squares Practice</a></li> <li>• <a href="#">Expanding Differences of Two Squares Practice</a></li> </ul> <p>2. Factorising</p> <ul style="list-style-type: none"> <li>• <a href="#">Connecting Expanding and Factorising Practice</a></li> <li>• <a href="#">Identifying Algebraic Factors Practice</a></li> <li>• <a href="#">Identifying Complicated Algebraic Factors Practice</a></li> <li>• <a href="#">Factorising Practice</a></li> <li>• <a href="#">Factorisation Patterns Practice</a></li> <li>• <a href="#">Factorising Quadratic Expressions Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Algebraic Techniques (continued from previous page)	
	<p>6. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul>	
Content Descriptor/s	EP Lessons in 2. Linear and Non-Linear Relations	
<p>AC9M9A03 find the gradient of a line segment, the midpoint of the line interval and the distance between 2 distinct points on the Cartesian plane</p> <p>AC9M9A04 identify and graph quadratic functions, solve quadratic equations graphically and numerically, and solve monic quadratic equations with integer roots algebraically, using graphing software and digital tools as appropriate</p> <p>AC9M9A05 use mathematical modelling to solve applied problems involving change including financial contexts; formulate problems, choosing to use either linear or quadratic functions; interpret solutions in terms of the situation; evaluate the model and report methods and findings</p> <p>AC9M9A06 experiment with the effects of the variation of parameters on graphs of related functions, using digital tools, making connections between graphical and algebraic representations, and generalising emerging patterns</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Cartesian Planes</a></li> <li>• <a href="#">Linear Graphs</a></li> <li>• <a href="#">Reading Graphs</a></li> <li>• <a href="#">Solving Simple Linear Equations</a></li> <li>• <a href="#">Rearranging Linear Equations</a></li> </ul> <p>2. Coordinate Geometry</p> <ul style="list-style-type: none"> <li>• <a href="#">Line Segments on Cartesian Planes</a></li> <li>• <a href="#">Distance and Pythagoras' Theorem</a></li> <li>• <a href="#">Gradient of a Line Segment</a></li> <li>• <a href="#">Midpoint of a Line Segment</a></li> <li>• <a href="#">Applications of Coordinate Geometry: Distance</a></li> <li>• <a href="#">Applications of Coordinate Geometry: Gradient</a></li> <li>• <a href="#">Applications of Coordinate Geometry: Midpoint</a></li> </ul> <p>3. Linear Graphs</p> <ul style="list-style-type: none"> <li>• <a href="#">Features of Graphs</a></li> <li>• <a href="#">Plotting Linear Graphs</a></li> <li>• <a href="#">Drawing Linear Graphs Using the Gradient</a></li> <li>• <a href="#">Graphing Using Technology - Casio Calculators</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Linear Patterns and Rules</a></li> <li>• <a href="#">Determining Linear Rules</a></li> <li>• <a href="#">Horizontal and Vertical Lines</a></li> <li>• <a href="#">Plotting and Reading Travel Graphs</a></li> <li>• <a href="#">Analysing Travel Graphs</a></li> <li>• <a href="#">Water Evaporation Graphs</a></li> </ul> <p>4. Non-Linear Relationships</p> <p>Introduction to Parabolas</p> <ul style="list-style-type: none"> <li>• <a href="#">Transforming Parabolas</a></li> <li>• <a href="#">Circles</a></li> <li>• <a href="#">Solving Non-Linear Equations</a></li> <li>• <a href="#">Linear and Non-Linear Lines</a></li> </ul> <p>5. Solving Linear Equations</p> <ul style="list-style-type: none"> <li>• <a href="#">Rearranging Equations</a></li> <li>• <a href="#">Solving Using Algebraic Methods</a></li> <li>• <a href="#">Solving Using Graphical Methods</a></li> <li>• <a href="#">Non-Integer Solutions to Linear Equations</a></li> <li>• <a href="#">Applications of Linear Equations</a></li> </ul> <p>6. Further Resources</p> <p>Extension</p> <ul style="list-style-type: none"> <li>• <a href="#">Extension: Multiple Lines on Cartesian Planes</a></li> <li>• <a href="#">Extension: Plotting Linear Equations in Context</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in <b>2. Linear and Non-Linear Relations</b> (continued from previous page)	
	Spelling and Definitions <ul style="list-style-type: none"> <li>• <a href="#">Definitions MCQ: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Spelling List: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Spelling List: Linear and Non-Linear Relationships</a></li> </ul> Topic Tests <ul style="list-style-type: none"> <li>• <a href="#">Linear Patterns and Equations</a></li> <li>• <a href="#">Non-Linear Relationships</a></li> </ul>	

## Measurement

Content Descriptor/s	EP Lessons in <b>1. Measurement</b>	
AC9M9M01 solve problems involving the volume and surface area of right prisms and cylinders using appropriate units	<b>1. Prior Learning</b> <ul style="list-style-type: none"> <li>• <a href="#">Area</a></li> <li>• <a href="#">Area of Circles</a></li> <li>• <a href="#">Volume</a></li> <li>• <a href="#">Converting Units of Capacity</a></li> <li>• <a href="#">Area of Rectangles and Squares</a></li> <li>• <a href="#">Area of Triangles</a></li> <li>• <a href="#">Area of Parallelograms</a></li> <li>• <a href="#">Area of Rhombuses and Kites</a></li> <li>• <a href="#">Area of Trapeziums</a></li> <li>• <a href="#">Area of Composite Shapes I</a></li> <li>• <a href="#">Area of Composite Shapes II</a></li> <li>• <a href="#">Activity: Making Objects Using Cubes</a></li> </ul> <b>2. Surface Area</b> <ul style="list-style-type: none"> <li>• <a href="#">Surface Area of Prisms</a></li> <li>• <a href="#">Surface Area of Cylinders</a></li> <li>• <a href="#">Composite Shapes and Solids</a></li> </ul>	<b>3. Volume and Capacity</b> <ul style="list-style-type: none"> <li>• <a href="#">Types of Prisms</a></li> <li>• <a href="#">Rectangular Prisms</a></li> <li>• <a href="#">Calculating Volume of Rectangular Prisms</a></li> <li>• <a href="#">Volume of Composite Shapes</a></li> <li>• <a href="#">Calculating Volume of Other Regular and Irregular Prisms</a></li> <li>• <a href="#">Calculating Volume of Triangular Prisms</a></li> <li>• <a href="#">Calculating Volume of Cylinders</a></li> <li>• <a href="#">Converting between Capacity and Volume</a></li> <li>• <a href="#">Calculating Volume and Capacity</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in <b>1. Measurement</b> (continued from previous page)	
	<p><b>4. Online Worksheets</b></p> <p>1. Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Parallelograms Practice</a></li> <li>• <a href="#">Area of Rhombus and Kites Practice</a></li> <li>• <a href="#">Area of Trapeziums Practice</a></li> <li>• <a href="#">Area Mixed Practice</a></li> </ul> <p>2. Surface Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Surface Area Practice</a></li> <li>• <a href="#">Surface Area of Cylinders Practice</a></li> <li>• <a href="#">Surface Area Mixed Practice</a></li> </ul> <p>3. Volume and Capacity</p> <ul style="list-style-type: none"> <li>• <a href="#">Volume Practice</a></li> <li>• <a href="#">Calculating Capacity Practice</a></li> <li>• <a href="#">Converting Units of Capacity Practice</a></li> <li>• <a href="#">Converting Volume and Capacity Practice</a></li> <li>• <a href="#">Volume and Capacity Mixed Practice</a></li> </ul>	<p><b>5. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Units of Measurement</a></li> <li>• <a href="#">Definitions MCQ: Units of Measurement</a></li> <li>• <a href="#">Spelling List: Using Units of Measurement</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Area and Surface Area</a></li> <li>• <a href="#">Calculating Volume</a></li> </ul>
Content Descriptor/s	EP Lessons in <b>2. Time</b>	
AC9M9M02 solve problems involving very small and very large measurements, time scales and intervals expressed in scientific notation	<ul style="list-style-type: none"> <li>• <a href="#">Time Scales</a></li> </ul> <p><i>Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Time Scales Practice</a></li> </ul>	
Content Descriptor/s	EP Lessons in <b>3. Spatial Problems</b>	
AC9M9M03 solve spatial problems, applying angle properties, scale, similarity, Pythagoras' theorem and trigonometry in right-angled triangles	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Transformations</a></li> <li>• <a href="#">Congruence of Triangles</a></li> <li>• <a href="#">Congruence of Quadrilaterals</a></li> <li>• <a href="#">Angles</a></li> <li>• <a href="#">Triangles</a></li> <li>• <a href="#">Squares and Square Roots</a></li> <li>• <a href="#">Algebraic Substitution and Evaluation</a></li> <li>• <a href="#">Solving Equations</a></li> </ul>	<p><b>2. Angles</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Angles and Triangles</a></li> <li>• <a href="#">Angles and Quadrilaterals</a></li> <li>• <a href="#">Angles and Congruence</a></li> </ul> <p><b>3. Similarity</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Similarity</a></li> <li>• <a href="#">Similarity Tests</a></li> <li>• <a href="#">Similarity and Angles</a></li> <li>• <a href="#">Similarity and Multiple Triangles</a></li> </ul> <p><b>Resources continue on next page</b></p>

**Content Descriptor/s (see previous page)****EP Lessons in 3. Spatial Problems (continued from previous page)****4. Scaling**

- [Introduction to Scaling](#)
- [Scaling on Cartesian Planes](#)
- [Magnitude](#)
- [Magnitude as a Ratio](#)

**5. Pythagoras' Theorem**

- [Parts of a Triangle and the Hypotenuse](#)
- [Pythagoras' Theorem](#)

**6. Trigonometry**

- [Introduction to Trigonometry](#)
- [Finding Side Lengths Using Trigonometry](#)
- [Finding Angles Using Trigonometry](#)
- [Review Lesson: Trigonometric Ratios](#)

**7. Online Worksheets****1. Angles**

- [Angles in a Triangle Practice](#)
- [Angles and Quadrilaterals Practice](#)
- [Angles and Congruence Practice](#)

**2. Similarity**

- [Introduction to Similarity Practice](#)
- [Similarity Tests Practice](#)
- [Similarity and Angles Practice](#)
- [Similarity and Multiple Triangles Practice](#)

**3. Scaling**

- [Introduction to Scaling Practice](#)
- [Scaling on Cartesian Planes Practice](#)
- [Magnitude Practice](#)
- [Magnitude as a Ratio Practice](#)

**8. Further Resources****Extended Investigations**

- [Building with Pythagoras](#)

**Hands-On Activities**

- [Applications of Trigonometry in Coding](#)

**Maths in Context**

- [Mind-Boggling Paradoxes \(Year 8-10\)](#)

**Real World Applications**

- [Using Trigonometric Functions in Real World Applications](#)
- [Using Inverse Trigonometric Functions in Real World Applications](#)

**Spelling and Definitions**

- [Definitions List: Geometry](#)
- [Definitions MCQ: Geometry Definitions](#)
- [Spelling List: Geometric Reasoning](#)
- [Definitions List: Pythagoras and Trigonometry](#)
- [Definitions MCQ: Pythagoras and Trigonometry](#)
- [Spelling List: Pythagoras and Trigonometry](#)

**Topic Tests**

- [Angles](#)
- [Pythagoras' Theorem](#)
- [Right-Angle Triangles](#)

Content Descriptor/s	EP Lessons in <b>4. Mathematical Modelling</b>	
AC9M9M05 use mathematical modelling to solve practical problems involving direct proportion, rates, ratio and scale, including financial contexts; formulate the problems and interpret solutions in terms of the situation; evaluate the model and report methods and findings	<p><b>1. Proportion</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Graphs</a></li> <li>• <a href="#">Direct Proportion</a></li> <li>• <a href="#">Introduction to Inverse Proportion</a></li> <li>• <a href="#">Applying Inverse Proportion</a></li> <li>• <a href="#">Analysing Graphs</a></li> </ul> <p><b>2. Rates</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Constant Rates</a></li> <li>• <a href="#">Reading Constant Rates</a></li> <li>• <a href="#">Drawing Constant Rates</a></li> <li>• <a href="#">Variable Rates</a></li> <li>• <a href="#">Rates of Change</a></li> <li>• <a href="#">Analysing Rates of Change</a></li> </ul>	<p><b>3. Online Worksheets</b></p> <p><b>1. Proportion</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Graphs Practice</a></li> <li>• <a href="#">Direct Proportion Practice</a></li> <li>• <a href="#">Introduction to Inverse Proportion Practice</a></li> <li>• <a href="#">Applying Inverse Proportion Practice</a></li> </ul> <p><b>2. Rates</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Constant Rates Practice</a></li> <li>• <a href="#">Variable Rates Practice</a></li> <li>• <a href="#">Rates of Change Practice</a></li> </ul>

## Space

Content Descriptor/s	EP Lessons in <b>1. The Enlargement Transformation</b>	
AC9M9SP02 apply the enlargement transformation to shapes and objects using dynamic geometry software as appropriate; identify and explain aspects that remain the same and those that change	<ul style="list-style-type: none"> <li>• <a href="#">Introduction to Scaling and Enlargement</a></li> <li>• <a href="#">The Enlargement Transformation</a></li> <li>• <a href="#">The Enlargement Transformation Practice</a></li> <li>• <a href="#">Map Projections: A Matter of Perspective (Y5 - 10)</a></li> </ul>	
Content Descriptor/s	EP Lessons in <b>2. Pythagoras and Trigonometry</b>	
AC9M9SP01 recognise the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles using properties of similarity	<p><b>1. Trigonometric Ratios</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Trigonometric Ratios</a></li> <li>• <a href="#">Finding Angles Using Trigonometric Ratios</a></li> <li>• <a href="#">Finding Side Lengths Using Trigonometric Ratios</a></li> <li>• <a href="#">Trigonometric Ratios and Complementary Triangles</a></li> <li>• <a href="#">Review Lesson: Trigonometric Rules</a></li> </ul>	<p><b>2. Further Resources</b></p> <p>Extended Investigations</p> <ul style="list-style-type: none"> <li>• <a href="#">Building with Pythagoras</a></li> </ul> <p>Hands On Activities</p> <ul style="list-style-type: none"> <li>• <a href="#">Applications of Trigonometry in Coding</a></li> </ul> <p>Real World Applications</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Trigonometric Functions in Real World Applications</a></li> <li>• <a href="#">Using Inverse Trigonometric Functions in Real World Applications</a></li> </ul>

# Probability

Content Descriptor/s	EP Lessons in <i>5. Probability</i>	
<p>AC9M9P01 list all outcomes for compound events both with and without replacement, using lists, tree diagrams, tables or arrays; assign probabilities to outcomes</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Probability</a></li> <li>• <a href="#">Complementary Events</a></li> <li>• <a href="#">Describing Probabilities</a></li> <li>• <a href="#">Venn Diagrams</a></li> <li>• <a href="#">Two-Way Tables</a></li> <li>• <a href="#">Converting Between Venn Diagrams and Two-Way Tables</a></li> </ul>	
<p>AC9M9P02 calculate relative frequencies from given or collected data to estimate probabilities of events involving “and”, inclusive “or” and exclusive “or”</p>	<p>2. <i>Two-Step Experiments</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Two-Step Experiments</a></li> <li>• <a href="#">Tree Diagrams</a></li> <li>• <a href="#">Using Tree Diagrams</a></li> <li>• <a href="#">Arrays</a></li> <li>• <a href="#">Using Arrays</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Using Tree Diagrams Practice</a></li> <li>• <a href="#">Arrays Practice</a></li> <li>• <a href="#">Using Arrays Practice</a></li> </ul> <p>2. Venn Diagrams and Two-Way Tables</p> <ul style="list-style-type: none"> <li>• <a href="#">Venn Diagrams Practice</a></li> <li>• <a href="#">Calculating Probabilities from Venn Diagrams Practice</a></li> <li>• <a href="#">Two-Way Tables Practice</a></li> <li>• <a href="#">Calculating Probabilities from Two-Way Tables Practice</a></li> <li>• <a href="#">Calculating Probabilities from Chance Diagrams Practice</a></li> <li>• <a href="#">Filling in Chance Diagrams using Partial Information Practice</a></li> </ul>
	<p>3. <i>Venn Diagrams and Two-Way Tables</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Venn Diagrams</a></li> <li>• <a href="#">Using Venn Diagrams</a></li> <li>• <a href="#">Two-Way Tables</a></li> <li>• <a href="#">Using Two-Way Tables</a></li> <li>• <a href="#">Advanced Venn Diagrams and Two-Way Tables</a></li> </ul>	<p>3. Experimental Probability</p> <ul style="list-style-type: none"> <li>• <a href="#">Relative Frequencies Practice</a></li> <li>• <a href="#">Using Relative Frequencies Practice</a></li> </ul>
	<p>4. Experimental Probability</p> <ul style="list-style-type: none"> <li>• <a href="#">Relative Frequencies</a></li> <li>• <a href="#">Using Relative Frequencies</a></li> <li>• <a href="#">Representing Distributions Using Percentages</a></li> </ul>	<p>6. <i>Further Resources</i></p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Matching Malaria with Mathematics (Year 9-10)</a></li> <li>• <a href="#">Unfortunate Events (Year 5-10)</a></li> </ul>
	<p>5. <i>Online Worksheets</i></p> <p>1. Two-Step Experiments</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Two-Step Chance Practice</a></li> <li>• <a href="#">Tree Diagrams Practice</a></li> </ul>	<p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Chance</a></li> <li>• <a href="#">Definitions MCQ: Chance</a></li> <li>• <a href="#">Spelling List: Chance</a></li> </ul>
		<p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Venn Diagrams and Two-Way Tables</a></li> </ul>

# Statistics

Content Descriptor/s	EP Lessons in <b>6. Statistics</b>	
<p>AC9M9ST03 represent the distribution of multiple data sets for numerical variables using comparative representations; compare data distributions with consideration of centre, spread and shape, and the effect of outliers on these measures</p> <p>AC9M9ST04 choose appropriate forms of display or visualisation for a given type of data; justify selections and interpret displays for a given context</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Measures of Centre and Spread</a></li> <li>• <a href="#">Frequency Tables</a></li> <li>• <a href="#">Sampling</a></li> </ul> <p><b>2. Data Sources and Types</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Primary and Secondary Data</a></li> <li>• <a href="#">Types of Data</a></li> </ul> <p><b>3. Shape and Spread in Data</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Shape and Mode</a></li> <li>• <a href="#">Symmetry and Skew in Data</a></li> <li>• <a href="#">Effect of Shape on Mean and Median</a></li> <li>• <a href="#">Measures of Centre in Grouped Data</a></li> <li>• <a href="#">Finding Measures of Centre and Spread</a></li> </ul> <p><b>4. Comparing Data</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Comparing Data Sets</a></li> <li>• <a href="#">Back-to-Back Stem and Leaf Plots</a></li> <li>• <a href="#">Comparing Dot Plots</a></li> <li>• <a href="#">Comparing Histograms</a></li> </ul> <p><b>5. Online Worksheets</b></p> <p><b>1. Data Sources and Types</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Primary and Secondary Data Practice</a></li> <li>• <a href="#">Types of Data Practice</a></li> <li>• <a href="#">Data Sources Mixed Practice</a></li> </ul> <p><b>2. Shape and Spread of Data</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Shape and Mode Practice</a></li> <li>• <a href="#">Symmetry and Skew in Data Practice</a></li> <li>• <a href="#">Effect of Shape on Mean and Median Practice</a></li> <li>• <a href="#">Measures of Centre in Grouped Data Practice</a></li> <li>• <a href="#">Shape and Spread in Data Mixed Practice</a></li> </ul>	<p><b>3. Comparing Data</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Comparing Data Sets Practice</a></li> <li>• <a href="#">Back-to-Back Stem and Leaf Plots Practice</a></li> <li>• <a href="#">Comparing Dot Plots Practice</a></li> <li>• <a href="#">Comparing Histograms Practice</a></li> </ul> <p><b>6. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Data Representation and Interpretation</a></li> <li>• <a href="#">Definitions MCQ: Data Representation and Interpretation</a></li> <li>• <a href="#">Spelling List: Data Representation and Interpretation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Analysing and Comparing Data</a></li> </ul>



# Year 09 Pre-Tests and Post-Tests

Content Descriptor/s	EP Lessons	
	<p data-bbox="920 236 1070 260"><i>1. Pre-Tests</i></p> <ul data-bbox="972 272 1402 483" style="list-style-type: none"><li data-bbox="972 272 1328 296">• <a href="#">Year 09 Algebra Pre-Test</a></li><li data-bbox="972 309 1328 333">• <a href="#">Year 09 Chance Pre-Test</a></li><li data-bbox="972 346 1290 370">• <a href="#">Year 09 Data Pre-Test</a></li><li data-bbox="972 383 1355 406">• <a href="#">Year 09 Geometry Pre-Test</a></li><li data-bbox="972 419 1402 443">• <a href="#">Year 09 Measurement Pre-Test</a></li><li data-bbox="972 456 1335 480">• <a href="#">Year 09 Number Pre-Test</a></li></ul>	<p data-bbox="1543 236 1711 260"><i>2. Post-Tests</i></p> <ul data-bbox="1594 272 2024 483" style="list-style-type: none"><li data-bbox="1594 272 1951 296">• <a href="#">Year 09 Algebra Post-Test</a></li><li data-bbox="1594 309 1951 333">• <a href="#">Year 09 Chance Post-Test</a></li><li data-bbox="1594 346 1912 370">• <a href="#">Year 09 Data Post-Test</a></li><li data-bbox="1594 383 1977 406">• <a href="#">Year 09 Geometry Post-Test</a></li><li data-bbox="1594 419 2024 443">• <a href="#">Year 09 Measurement Post-Test</a></li><li data-bbox="1594 456 1951 480">• <a href="#">Year 09 Number Post-Test</a></li></ul>

# Year 10

## Number

Content Descriptor/s	EP Lessons in <i>1. Real Number</i>
AC9M10N01 recognise the effect of using approximations of real numbers in repeated calculations and compare the results when using exact representations	<p>1. <i>Surds</i></p> <ul style="list-style-type: none"><li>• <a href="#">Introduction to Surds</a></li><li>• <a href="#">Index Laws and Fractional Powers</a></li><li>• <a href="#">Multiplying and Dividing Surds</a></li><li>• <a href="#">Simplifying Surds</a></li><li>• <a href="#">Adding and Subtracting Surds</a></li><li>• <a href="#">Expanding Surds</a></li><li>• <a href="#">Conjugate and Perfect Square Surds</a></li><li>• <a href="#">Rationalising Denominators</a></li></ul> <p>Further Resources</p> <p>1. Problem Solving</p> <ul style="list-style-type: none"><li>• <a href="#">Applications of Surds</a></li></ul> <p>2. Spelling and Definitions</p> <ul style="list-style-type: none"><li>• <a href="#">Spelling List: Real Numbers</a></li></ul>

# Algebra

Content Descriptor/s	EP Lessons in <b>1. Algebraic Techniques</b>	
AC9M10A01 expand, factorise and simplify expressions and solve equations algebraically, applying exponent laws involving products, quotients and powers of variables, and the distributive property	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"><li>• <a href="#">Expanding</a></li><li>• <a href="#">Factorising</a></li><li>• <a href="#">Index Laws: Multiplication and Division</a></li><li>• <a href="#">Index Laws: Stacked Powers and the Zero Index</a></li><li>• <a href="#">Evaluating Expressions and Using Formulas</a></li><li>• <a href="#">Fractional Indices</a></li><li>• <a href="#">Simplifying Addition and Subtraction</a></li><li>• <a href="#">Simplifying Multiplication and Division</a></li></ul> <p><b>2. Algebraic Expressions</b></p> <ul style="list-style-type: none"><li>• <a href="#">Simplifying Algebraic Products with Index Laws</a></li><li>• <a href="#">Simplifying Algebraic Quotients with Index Laws</a></li><li>• <a href="#">Adding Algebraic Fractions</a></li><li>• <a href="#">Subtracting Algebraic Fractions</a></li><li>• <a href="#">Multiplying Algebraic Fractions</a></li><li>• <a href="#">Dividing Algebraic Fractions</a></li></ul> <p><b>3. Expanding and Factorising</b></p> <ul style="list-style-type: none"><li>• <a href="#">Expanding and the Distributive Law</a></li><li>• <a href="#">Identifying Common Factors</a></li><li>• <a href="#">Identifying Common Factors with Indices</a></li><li>• <a href="#">Factorising</a></li><li>• <a href="#">Factorising with Index Laws</a></li><li>• <a href="#">Factorisation by Grouping</a></li></ul> <p><b>4. Using Formulas</b></p> <ul style="list-style-type: none"><li>• <a href="#">Using Formulas</a></li><li>• <a href="#">Rearranging and Solving Equations</a></li></ul>	<p><b>5. Solving Linear Equations</b></p> <ul style="list-style-type: none"><li>• <a href="#">Word Problems</a></li><li>• <a href="#">Rearranging and Solving Equations</a></li><li>• <a href="#">Solving Word Problems</a></li><li>• <a href="#">Using Formulas</a></li><li>• <a href="#">Rearranging and Solving Equations from Formulas</a></li></ul> <p><b>6. Online Worksheets</b></p> <p><b>1. Algebraic Fractions</b></p> <ul style="list-style-type: none"><li>• <a href="#">Simplifying Algebraic Products with Index Laws Practice</a></li><li>• <a href="#">Simplifying Algebraic Quotients with Index Laws Practice</a></li><li>• <a href="#">Adding Algebraic Fractions Practice</a></li><li>• <a href="#">Subtracting Algebraic Fractions Practice</a></li><li>• <a href="#">Multiplying Algebraic Fractions Practice</a></li><li>• <a href="#">Dividing Algebraic Fractions Practice</a></li><li>• <a href="#">Cancelling Common Factors Practice</a></li><li>• <a href="#">Algebraic Fractions Extended Practice</a></li></ul> <p><b>2. Expanding and Factorising</b></p> <ul style="list-style-type: none"><li>• <a href="#">Identifying Common Factors Practice</a></li><li>• <a href="#">Factorising with Index Laws Practice</a></li><li>• <a href="#">Factorisation by Grouping Practice</a></li></ul> <p><b>3. Using Formulas</b></p> <ul style="list-style-type: none"><li>• <a href="#">Using Formulas Practice</a></li><li>• <a href="#">Solving Equations Practice</a></li></ul> <p><b>4. Solving Linear Equations</b></p> <ul style="list-style-type: none"><li>• <a href="#">Word Problems Practice</a></li><li>• <a href="#">Rearranging and Solving Equations Practice</a></li><li>• <a href="#">Solving Word Problems Practice</a></li></ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 1. Algebraic Techniques(continued from previous page)	
	<p>7. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Matching Malaria with Mathematics (Year 9-10)</a></li> <li>• <a href="#">The Mathematics of the Guitar (Year 9-10)</a></li> </ul>	<p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Algebraic Fractions</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Linear Relations	
<p>AC9M10A02 solve linear inequalities and simultaneous linear equations in 2 variables; interpret solutions graphically and communicate solutions in terms of the situation</p> <p>AC9M10A05 experiment with functions and relations using digital tools, making and testing conjectures and generalising emerging patterns</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Linear Graphs</a></li> <li>• <a href="#">Linear Equations</a></li> <li>• <a href="#">Finding the Gradient of a Line Segment</a></li> <li>• <a href="#">Finding the Length of a Line Segment</a></li> <li>• <a href="#">Finding the Midpoint of a Line Segment</a></li> </ul> <p>2. Parallel and Perpendicular Lines</p> <ul style="list-style-type: none"> <li>• <a href="#">Parallel Lines</a></li> <li>• <a href="#">Perpendicular Lines</a></li> </ul> <p>3. Solving Simultaneous Linear Equations</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Graphs to Solve Simultaneous Equations</a></li> <li>• <a href="#">Using Elimination to Solve Simultaneous Equations</a></li> <li>• <a href="#">Using Substitution to Solve Simultaneous Equations</a></li> </ul> <p>4. Linear Inequalities</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Inequalities</a></li> <li>• <a href="#">Rearranging Inequalities</a></li> <li>• <a href="#">Solving Inequalities</a></li> <li>• <a href="#">Chained Inequalities</a></li> <li>• <a href="#">Review Lesson: Inequalities</a></li> </ul>	<p>5. Online Worksheets</p> <p>1. Parallel and Perpendicular Lines</p> <ul style="list-style-type: none"> <li>• <a href="#">Parallel Lines Practice</a></li> <li>• <a href="#">Perpendicular Lines Practice</a></li> </ul> <p>2. Solving Simultaneous Linear Equations</p> <ul style="list-style-type: none"> <li>• <a href="#">Using Graphs to Solve Simultaneous Equations Practice</a></li> <li>• <a href="#">Using Substitution to Solve Simultaneous Equations Practice</a></li> <li>• <a href="#">Using Elimination to Solve Simultaneous Equations Practice</a></li> </ul> <p>6. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Predictions Without a Theory: Empirical Equations (Year 9-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Definitions MCQ: Linear and Non-Linear Relationships</a></li> <li>• <a href="#">Spelling List: Linear and Non-Linear Relationships</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Linear Relationships</a></li> <li>• <a href="#">Simplifying Algebraic Products and Integer Indices</a></li> </ul>

Content Descriptor/s	EP Lessons in <b>3. Further Algebraic Techniques</b>	
<p>AC9M10A01 expand, factorise and simplify expressions and solve equations algebraically, applying exponent laws involving products, quotients and powers of variables, and the distributive property</p>	<p><b>1. Expanding and Factorising</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding Binomial Products</a></li> <li>• <a href="#">Factorising Quadratic Trinomials</a></li> <li>• <a href="#">Monic Factorisation</a></li> <li>• <a href="#">Non-Monic Factorisation</a></li> <li>• <a href="#">Factorising Differences of Two Squares</a></li> <li>• <a href="#">Factorising by Completing the Square</a></li> </ul> <p><b>2. Solving Quadratic Equations</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Solving Quadratic Equations Using Technology</a></li> <li>• <a href="#">Guess and Check</a></li> <li>• <a href="#">Solving Monic Quadratic Equations</a></li> <li>• <a href="#">Solving Non-Monic Quadratic Equations</a></li> <li>• <a href="#">The Quadratic Formula</a></li> <li>• <a href="#">Completing the Square: Method 1 - Using Rearrangement</a></li> <li>• <a href="#">Completing the Square: Method 2 - Using Differences of Two Squares</a></li> <li>• <a href="#">Solving Quadratic Equations by Completing the Square</a></li> <li>• <a href="#">Grouping</a></li> <li>• <a href="#">Writing Quadratic Equations</a></li> </ul> <p><b>3. Solving Quadratic Inequalities</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Solving Quadratic Inequalities</a></li> </ul>	<p><b>4. Online Worksheets</b></p> <p><b>1. Expanding and Factorising</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Expanding Binomial Products Practice</a></li> <li>• <a href="#">Expanding to Trinomials Practice</a></li> <li>• <a href="#">Factorising Quadratic Trinomials Practice</a></li> <li>• <a href="#">Factorising Perfect Squares Practice</a></li> <li>• <a href="#">Factorising Differences of Two Squares Practice</a></li> <li>• <a href="#">Factorising by Completing the Square Practice</a></li> </ul> <p><b>2. Solving Quadratic Equations</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Solving Quadratic Equations Using Technology Practice</a></li> <li>• <a href="#">Guess and Check Practice</a></li> <li>• <a href="#">The Quadratic Formula Practice</a></li> <li>• <a href="#">Completing the Square Using Differences of Two Squares Practice</a></li> <li>• <a href="#">Solving Quadratic Equations by Completing the Square Practice</a></li> <li>• <a href="#">Grouping Practice</a></li> </ul> <p><b>5. Further Resources</b></p> <p>Topic Test</p> <ul style="list-style-type: none"> <li>• <a href="#">Solving Quadratic Equations</a></li> </ul>

Content Descriptor/s	EP Lessons in 4. <i>Financial Contexts</i>	
<p>AC9M10A04 use mathematical modelling to solve applied problems involving growth and decay, including financial contexts; formulate problems, choosing to apply linear, quadratic or exponential models; interpret solutions in terms of the situation; evaluate and modify models as necessary and report assumptions, methods and findings</p>	<p><i>1. Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Income and Tax</a></li> <li>• <a href="#">Simple Interest</a></li> </ul> <p><i>2. Compound Interest</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Compound Interest Basic Formula</a></li> <li>• <a href="#">Rearranging the Compound Interest Formula</a></li> <li>• <a href="#">Compound Interest - Months and Weeks</a></li> <li>• <a href="#">Rearranging Compound Interest - Months and Weeks</a></li> </ul> <p><i>2. Online Worksheets</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Compound Interest Basic Formula Practice</a></li> <li>• <a href="#">Rearranging the Compound Interest Basic Formula Practice</a></li> <li>• <a href="#">Compound Interest - Months and Weeks Practice</a></li> </ul>	<p><i>3. Further Resources</i></p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Cryptocurrency (Year 9-10)</a></li> <li>• <a href="#">Hyperinflation: The Ever-Expanding Topic (Year 9-10)</a></li> </ul> <p>Problem Solving</p> <ul style="list-style-type: none"> <li>• <a href="#">Term Deposit</a></li> <li>• <a href="#">Mortgage</a></li> <li>• <a href="#">Retirement</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Finance</a></li> <li>• <a href="#">Definitions MCQ: Finance</a></li> <li>• <a href="#">Spelling List: Money and Financial Mathematics</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Compound Interest</a></li> </ul>
Content Descriptor/s	EP Lessons in 5. <i>Quadratic and Other Graphs</i>	
<p>AC9M10A03 recognise the connection between algebraic and graphical representations of exponential relations and solve related exponential equations, using digital tools where appropriate</p> <p>AC9M10A05 experiment with functions and relations using digital tools, making and testing conjectures and generalising emerging patterns</p>	<p><i>1. Quadratic Graphs</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Parabolas</a></li> <li>• <a href="#">Transforming Parabolas</a></li> <li>• <a href="#">Transforming Parabolas - Dilation and Reflection</a></li> <li>• <a href="#">Transforming Parabolas - Translation</a></li> </ul> <p><i>2. Exponential Relations</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Exponential Functions</a></li> <li>• <a href="#">Solving Exponential Equations</a></li> <li>• <a href="#">Exponential Graphs</a></li> <li>• <a href="#">Equations and Graphs of Exponential Relationships</a></li> </ul>	<p><i>3. Other Graphs</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Circles</a></li> <li>• <a href="#">Circle Graphs</a></li> <li>• <a href="#">Transforming Circles</a></li> <li>• <a href="#">Exponential Graphs</a></li> <li>• <a href="#">Hyperbola Graphs</a></li> <li>• <a href="#">Hyperbola Graph Transformations</a></li> </ul> <p><i>4. Online Worksheets</i></p> <p>1. Quadratic Graphs</p> <ul style="list-style-type: none"> <li>• <a href="#">Parabolas Practice</a></li> <li>• <a href="#">Transforming Parabolas Practice</a></li> <li>• <a href="#">Transforming Parabolas - Dilation and Reflection Practice</a></li> <li>• <a href="#">Transforming Parabolas - Translation Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in <b>5. Quadratic and Other Graphs</b> (continued from previous page)	
	<p>2. Other Graphs</p> <ul style="list-style-type: none"> <li>• <a href="#">Circles Practice</a></li> <li>• <a href="#">Transforming Circles Practice</a></li> <li>• <a href="#">Exponential Graphs Practice</a></li> </ul>	<p>4. Further Resources</p> <p>Topic Test</p> <ul style="list-style-type: none"> <li>• <a href="#">Transforming Parabolas</a></li> </ul>
Content Descriptor/s	EP Lessons in <b>6. Post-Year 10 Pathways Supporting Resources</b>	
	<p>1. Trigonometry</p> <p>1. Defining and Graphing Trigonometric Functions</p> <ul style="list-style-type: none"> <li>• <a href="#">The Unit Circle and Radians</a></li> <li>• <a href="#">Understanding and Graphing Sine</a></li> <li>• <a href="#">Understanding and Graphing Cosine</a></li> <li>• <a href="#">Understanding and Graphing Tangent</a></li> <li>• <a href="#">Comparing Trigonometric Functions</a></li> </ul> <p>2. Trigonometric Rules</p> <ul style="list-style-type: none"> <li>• <a href="#">The Sine Rule</a></li> <li>• <a href="#">Finding Angles Using the Sine Rule</a></li> <li>• <a href="#">The Sine Rule: The Ambiguous Case</a></li> <li>• <a href="#">The Cosine Rule</a></li> <li>• <a href="#">Finding Angles Using the Cosine Rule</a></li> <li>• <a href="#">Review Lesson: Trigonometric Rules</a></li> </ul> <p>3. Area of a Triangle</p> <ul style="list-style-type: none"> <li>• <a href="#">Area of a Triangle: <math>\frac{1}{2} ab \sin C</math></a></li> <li>• <a href="#">Heron's Formula</a></li> </ul> <p>4. Solving Simple Trigonometric Equations</p> <ul style="list-style-type: none"> <li>• <a href="#">Special Triangles: 30-60-90</a></li> <li>• <a href="#">Special Triangles: 45-45-90</a></li> <li>• <a href="#">Trigonometric Ratios and Complementary Angle</a></li> </ul>	<p>2. Polynomials</p> <p>1. Polynomials</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Polynomials</a></li> <li>• <a href="#">Evaluating Polynomials</a></li> <li>• <a href="#">Adding, Subtracting and Multiplying Polynomials</a></li> <li>• <a href="#">Dividing Polynomials</a></li> <li>• <a href="#">The Remainder Theorem</a></li> <li>• <a href="#">The Factor Theorem</a></li> </ul> <p>2. Polynomial Graphs</p> <ul style="list-style-type: none"> <li>• <a href="#">Features of Polynomial Graphs</a></li> <li>• <a href="#">Features of Graphs - Roots</a></li> <li>• <a href="#">Parabolas</a></li> <li>• <a href="#">Parabola Transformations</a></li> <li>• <a href="#">Multiple Transformations of Parabolas</a></li> <li>• <a href="#">Cubics</a></li> <li>• <a href="#">Cubic Transformations</a></li> <li>• <a href="#">Expanding Cubic Expressions</a></li> <li>• <a href="#">Quartics</a></li> </ul> <p>3. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Polynomials Practice</a></li> <li>• <a href="#">Evaluating Polynomials Practice</a></li> <li>• <a href="#">Adding, Subtracting and Multiplying Polynomials Practice</a></li> <li>• <a href="#">Dividing Polynomials Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 6. Post-Year 10 Pathways Supporting Resources (continued from previous page)	
	<ul style="list-style-type: none"> <li>• <a href="#">The Remainder Theorem Practice</a></li> <li>• <a href="#">The Factor Theorem Practice</a></li> <li>• <a href="#">Factorising Cubic Polynomials Practice</a></li> <li>• <a href="#">Factorising Quartic Polynomials Practice</a></li> <li>• <a href="#">Solving Polynomials Practice</a></li> </ul> <p>4. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Fractal Trees and Recursion (Year 7-10)</a></li> <li>• <a href="#">Patterns Found in Nature (Year 5-10)</a></li> </ul>	<p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Patterns and Algebra</a></li> <li>• <a href="#">Definitions MCQ: Patterns and Algebra</a></li> <li>• <a href="#">Spelling List: Patterns and Algebra</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Topic Test: Polynomials</a></li> </ul> <p>3. Functions</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Functions</a></li> <li>• <a href="#">Function Notation</a></li> <li>• <a href="#">Inverse Functions and Transformations</a></li> <li>• <a href="#">Non-Linear Simultaneous Equations</a></li> </ul>

## Measurement

Content Descriptor/s	EP Lessons in 1. Surface Area and Volume	
<p>AC9M10M01 solve problems involving the surface area and volume of composite objects using appropriate units</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Area</a></li> <li>• <a href="#">Area of Circles</a></li> <li>• <a href="#">Volume</a></li> </ul> <p>2. Surface Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Composite Shapes</a></li> <li>• <a href="#">Surface Area of Cylinders</a></li> <li>• <a href="#">Surface Area of Prisms</a></li> <li>• <a href="#">Surface Area of Complex Solids</a></li> <li>• <a href="#">Surface Area of Composite Solids</a></li> <li>• <a href="#">Surface Area of Right Pyramids</a></li> <li>• <a href="#">Surface Area of Right Cones</a></li> <li>• <a href="#">Finding the Height of Right Pyramids</a></li> <li>• <a href="#">Surface Area of Spheres</a></li> </ul>	<p>3. Volume</p> <ul style="list-style-type: none"> <li>• <a href="#">Rectangular Prisms</a></li> <li>• <a href="#">Types of Prisms</a></li> <li>• <a href="#">Calculating Volume of Rectangular Prisms</a></li> <li>• <a href="#">Calculating Volume of Triangular Prisms</a></li> <li>• <a href="#">Calculating Volume of Cylinders</a></li> <li>• <a href="#">Calculating Volume of Other Regular and Irregular Prisms</a></li> <li>• <a href="#">Volume of Composite Solids</a></li> <li>• <a href="#">Volume of Right Pyramids</a></li> <li>• <a href="#">Volume of Right Cones</a></li> <li>• <a href="#">Volume of Spheres</a></li> </ul> <p><b>Resources continue on next page</b></p>



Content Descriptor/s (see previous page)	EP Lessons in 1. Surface Area and Volume (continued from previous page)	
	<p>4. Online Worksheets</p> <p>1. Surface Area</p> <ul style="list-style-type: none"> <li>• <a href="#">Area of Circles Practice</a></li> <li>• <a href="#">Area of Composite Shapes Practice</a></li> <li>• <a href="#">Surface Area of Cylinders Practice</a></li> <li>• <a href="#">Surface Area of Prisms Practice</a></li> <li>• <a href="#">Surface Area of Complex Solids Practice</a></li> <li>• <a href="#">Surface Area Mixed Practice</a></li> </ul> <p>2. Volume</p> <ul style="list-style-type: none"> <li>• <a href="#">Volume Practice</a></li> <li>• <a href="#">Volume of Composite Solids Practice</a></li> <li>• <a href="#">Volume Mixed Practice</a></li> </ul>	<p>5. Further Resources</p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Units of Measurement</a></li> <li>• <a href="#">Definitions MCQ: Units of Measurement</a></li> <li>• <a href="#">Spelling List: Using Units of Measurement</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Surface Area</a></li> </ul>
Content Descriptor/s	EP Lessons in 2. Pythagoras' Theorem and Trigonometry	
<p>AC9M10M03 solve practical problems applying Pythagoras' theorem and trigonometry of right-angled triangles, including problems involving direction and angles of elevation and depression</p>	<p>1. Prior Learning</p> <ul style="list-style-type: none"> <li>• <a href="#">Pythagoras' Theorem</a></li> <li>• <a href="#">Trigonometric Ratios</a></li> </ul> <p>2. Pythagoras' Theorem in 3D</p> <ul style="list-style-type: none"> <li>• <a href="#">Pythagoras' Theorem in 3D</a></li> </ul> <p>3. Application of Trigonometry</p> <ul style="list-style-type: none"> <li>• <a href="#">Bearings with Right-Angled Triangles</a></li> <li>• <a href="#">Angles of Elevation and Depression</a></li> <li>• <a href="#">Trigonometry in 3D</a></li> <li>• <a href="#">3D Problems Using Right-Angled Triangles</a></li> </ul> <p>4. Further Resources</p> <p>Extended Investigations</p> <ul style="list-style-type: none"> <li>• <a href="#">Building with Pythagoras</a></li> <li>• <a href="#">Pirates' Treasure</a></li> <li>• <a href="#">Airplane Flight Paths</a></li> </ul> <p>Problem Solving</p> <ul style="list-style-type: none"> <li>• <a href="#">Forestry Subdivision</a></li> <li>• <a href="#">Balloons Over Waikato</a></li> </ul>	<p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Pythagoras and Trigonometry</a></li> <li>• <a href="#">Definitions MCQ: Pythagoras and Trigonometry</a></li> <li>• <a href="#">Spelling List: Pythagoras and Trigonometry</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Inverse Trig, Bearings and Elevation</a></li> </ul>

Content Descriptor/s	EP Lessons in <b>3. Logarithmic Scales</b>	
AC9M10M02 interpret and use logarithmic scales in applied contexts involving small and large quantities and change	<b>1. Logarithms</b> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Logarithms</a></li> <li>• <a href="#">Logarithmic Scales</a></li> <li>• <a href="#">Deriving the Laws of Logarithms</a></li> <li>• <a href="#">Using the Laws of Logarithms</a></li> <li>• <a href="#">Combining Log Laws</a></li> </ul>	<b>2. Exponentials</b> <ul style="list-style-type: none"> <li>• <a href="#">Solving Exponential Equations</a></li> <li>• <a href="#">Applications of Exponential Equations</a></li> </ul>

## Space

Content Descriptor/s	EP Lessons in <b>1. Geometry</b>	
AC9M10SP01 apply deductive reasoning to proofs involving shapes in the plane and use theorems to solve spatial problems	<b>1. Prior Learning</b> <ul style="list-style-type: none"> <li>• <a href="#">Angles and Triangles</a></li> <li>• <a href="#">Similarity and Multiple Triangles</a></li> <li>• <a href="#">Angles and Quadrilaterals</a></li> <li>• <a href="#">Congruence</a></li> <li>• <a href="#">Using Congruence to Determine Angles in Triangles</a></li> <li>• <a href="#">Introduction to Scaling</a></li> <li>• <a href="#">Magnitude</a></li> <li>• <a href="#">Magnitude as a Ratio</a></li> <li>• <a href="#">Scaling on Cartesian Planes</a></li> <li>• <a href="#">Introduction to Similarity</a></li> <li>• <a href="#">Similarity Tests</a></li> <li>• <a href="#">Similarity and Angles</a></li> </ul> <b>2. Geometric Reasoning</b> <ul style="list-style-type: none"> <li>• <a href="#">Scaling and Measurement</a></li> <li>• <a href="#">Polygons and Interior Angles</a></li> <li>• <a href="#">Polygons and Exterior Angles</a></li> <li>• <a href="#">Showing Congruence</a></li> <li>• <a href="#">Showing Similarity</a></li> </ul> <b>3. Proofs</b> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Proofs and Logic</a></li> <li>• <a href="#">Angle Proofs</a></li> <li>• <a href="#">Rectangle and Square Proofs</a></li> <li>• <a href="#">Parallelogram and Rhombus Proofs</a></li> </ul>	<b>4. Online Worksheets</b> <p><b>1. Geometric Reasoning</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Scaling Perimeter Practice</a></li> <li>• <a href="#">Scaling Circles Practice</a></li> <li>• <a href="#">Scaling Area Practice</a></li> <li>• <a href="#">Polygons and Interior Angles Practice</a></li> <li>• <a href="#">Polygons and Exterior Angles Practice</a></li> <li>• <a href="#">Showing Congruence Practice</a></li> <li>• <a href="#">Showing Similarity Practice</a></li> </ul> <p><b>2. Proofs</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Proofs and Logic Practice</a></li> <li>• <a href="#">Angle Proofs Practice</a></li> <li>• <a href="#">Rectangle and Square Proofs Practice</a></li> <li>• <a href="#">Parallelogram and Rhombus Proofs Practice</a></li> </ul> <p><b>5. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Geometric Reasoning</a></li> <li>• <a href="#">Definitions MCQ: Geometric Reasoning</a></li> <li>• <a href="#">Spelling List: Geometric Reasoning</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Proofs</a></li> </ul>

Content Descriptor/s	EP Lessons in <b>2. Post-Year 10 Pathways Supporting Resources</b>	
	<p><i>Circle Geometry</i></p> <p>1. Angle Theorems for Circles</p> <ul style="list-style-type: none"> <li>• <a href="#">Central Angle Theorem</a></li> <li>• <a href="#">Proof: Central Angle Theorem</a></li> <li>• <a href="#">Angles Subtended by the Same Arc</a></li> <li>• <a href="#">Thales' Theorem: Angles in a Semicircle Proving Thales' Theorem</a></li> <li>• <a href="#">Cyclic Quadrilaterals</a></li> </ul> <p>2. Circle Geometry</p> <ul style="list-style-type: none"> <li>• <a href="#">Equal Length Chord Properties</a></li> <li>• <a href="#">Perpendicular Bisector to Chords</a></li> <li>• <a href="#">Tangents, Secants and the Alternate Segment Theorem</a></li> <li>• <a href="#">Intersecting Chords, Secants and Tangents</a></li> </ul>	<p>3. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Mind-Boggling Paradoxes (Year 8-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Geometric Reasoning</a></li> <li>• <a href="#">Definitions MCQ: Geometric Reasoning</a></li> <li>• <a href="#">Spelling List: Geometric Reasoning</a></li> </ul>

## Probability

Content Descriptor/s	EP Lessons in <b>5. Probability</b>	
<p>AC9M10P01 use the language of “if .... then”, “given”, “of”, “knowing that” to describe and interpret situations involving conditional probability</p> <p>AC9M10P02 design and conduct repeated chance experiments and simulations using digital tools to model conditional probability and interpret results</p>	<p>1. <i>Prior Learning</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Tree Diagrams</a></li> <li>• <a href="#">Arrays</a></li> <li>• <a href="#">Venn Diagrams</a></li> <li>• <a href="#">Two-Way Tables</a></li> <li>• <a href="#">Experimental Probability</a></li> </ul> <p>2. <i>Multi-Step Experiments</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Arrays</a></li> <li>• <a href="#">Probabilities and Three-Step Experiments</a></li> <li>• <a href="#">Building Three-Step Tree Diagrams</a></li> <li>• <a href="#">Tree Diagrams with Unequal Outcomes</a></li> <li>• <a href="#">Probabilities of Unequal Outcomes</a></li> <li>• <a href="#">Three-Step Experiments and Unequal Outcomes</a></li> </ul>	<p>3. <i>Conditional Probability</i></p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Conditional Probability</a></li> <li>• <a href="#">Investigating Conditional Probability with Venn Diagrams</a></li> <li>• <a href="#">Investigating Conditional Probability with Two-Way Tables</a></li> <li>• <a href="#">Calculating Conditional Probability Using Tree Diagrams</a></li> <li>• <a href="#">Calculating Conditional Probabilities using Arrays</a></li> <li>• <a href="#">Word Problems</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in 5. Probability (continued from previous page)	
	<p>4. Independent Events</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Independence</a></li> <li>• <a href="#">Investigating Independent Events using Chance Diagrams</a></li> <li>• <a href="#">Independent and Dependent Events</a></li> </ul> <p>5. Sampling</p> <ul style="list-style-type: none"> <li>• <a href="#">What is Sampling?</a></li> <li>• <a href="#">Types of Sampling: Probability Sampling</a></li> <li>• <a href="#">Types of Sampling: Non-Probability Sampling</a></li> <li>• <a href="#">Sampling Errors</a></li> <li>• <a href="#">Analysing Sampling in Reports</a></li> </ul> <p>6. Online Worksheets</p> <p>1. Multi-Step Experiments</p> <ul style="list-style-type: none"> <li>• <a href="#">Arrays Practice</a></li> <li>• <a href="#">Probabilities and Three-Step Experiments Practice</a></li> <li>• <a href="#">Building Three-Step Tree Diagrams Practice</a></li> <li>• <a href="#">Tree Diagrams with Unequal Outcomes Practice</a></li> <li>• <a href="#">Probabilities of Unequal Outcomes Practice</a></li> <li>• <a href="#">Three-Step Experiments and Unequal Outcomes Practice</a></li> </ul>	<p>2. Conditional Probability</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Conditional Probability Practice</a></li> <li>• <a href="#">Investigating Conditional Probability with Venn Diagrams Practice</a></li> <li>• <a href="#">Investigating Conditional Probability with Two-Way Tables Practice</a></li> <li>• <a href="#">Calculating Conditional Probability Using Tree Diagrams Practice</a></li> <li>• <a href="#">Calculating Conditional Probabilities Using Arrays Practice</a></li> <li>• <a href="#">Word Problems Practice</a></li> </ul> <p>3. Independent Events</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Independence Practice</a></li> <li>• <a href="#">Investigating Independent Events using Chance Diagrams Practice</a></li> </ul> <p>7. Further Resources</p> <p>Maths in Context</p> <ul style="list-style-type: none"> <li>• <a href="#">Unfortunate Events (Year 5-10)</a></li> </ul> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Chance</a></li> <li>• <a href="#">Definitions MCQ: Chance</a></li> <li>• <a href="#">Spelling List: Chance</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Conditional Probability</a></li> </ul>

# Statistics

Content Descriptor/s	EP Lessons in <b>6. Statistics</b>	
<p>AC9M10ST01 analyse claims, inferences and conclusions of statistical reports in the media, including ethical considerations and identification of potential sources of bias</p> <p>AC9M10ST02 compare data distributions for continuous numerical variables using appropriate data displays including boxplots; discuss the shapes of these distributions in terms of centre, spread, shape and outliers in the context of the data</p> <p>AC9M10ST03 construct scatterplots and comment on the association between the 2 numerical variables in terms of strength, direction and linearity</p> <p>AC9M10ST05 plan and conduct statistical investigations of situations that involve bivariate data; evaluate and report findings with consideration of limitations of any inferences</p>	<p><b>1. Prior Learning</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Data Sources</a></li> <li>● <a href="#">Measures of Centre and Spread</a></li> <li>● <a href="#">Shape in Data</a></li> <li>● <a href="#">Comparing Data Sets and Back-to-Back Stem and Leaf Plots</a></li> <li>● <a href="#">Comparing Dot Plots and Histograms</a></li> <li>● <a href="#">Introduction to Spreadsheets</a></li> </ul> <p><b>2. Box and Whisker Plots</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Introduction to Box and Whisker Plots</a></li> <li>● <a href="#">Range</a></li> <li>● <a href="#">Quartiles and Interquartile Range</a></li> <li>● <a href="#">Five Point Summary</a></li> <li>● <a href="#">Building Box and Whisker Plots</a></li> <li>● <a href="#">Comparing Box and Whisker Plots</a></li> <li>● <a href="#">Box and Whisker Plots, Histograms and Dot Plots</a></li> </ul> <p><b>3. Bivariate Data</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Bivariate Variables</a></li> <li>● <a href="#">Introduction to Bivariate Data</a></li> <li>● <a href="#">Plotting Using a Calculator</a></li> <li>● <a href="#">Plotting Using a Spreadsheet</a></li> <li>● <a href="#">Analysing Trend by Eye</a></li> <li>● <a href="#">Cleaning Bivariate Data</a></li> </ul> <p><b>4. Lines of Best Fit</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Lines of Best Fit by Eye</a></li> <li>● <a href="#">Least Squares Fitting using a Calculator</a></li> <li>● <a href="#">Least Squares Fitting using a Spreadsheet</a></li> <li>● <a href="#">Making Predictions by Eye</a></li> <li>● <a href="#">Making Predictions Using the Equation</a></li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">Testing Regression Models Using A Calculator</a></li> <li>● <a href="#">Testing Regression Models Using A Spreadsheet</a></li> </ul> <p><b>5. Time Series</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Introduction to Time Series</a></li> <li>● <a href="#">Analysing Time Series</a></li> </ul> <p><b>6. Statistical Reports</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Evaluating Statistical Reports and Claims: Data Collection</a></li> <li>● <a href="#">Evaluating Statistical Reports and Claims: Data Reporting</a></li> <li>● <a href="#">Evaluating Statistical Graphs: Making our Graph</a></li> <li>● <a href="#">Evaluating Statistical Graphs: the Shape of the Graph</a></li> <li>● <a href="#">Misleading Reports</a></li> <li>● <a href="#">Statistics in Organisations</a></li> <li>● <a href="#">Statistical Inquiry</a></li> <li>● <a href="#">The Statistical Enquiry Cycle</a></li> </ul> <p><b>7. Online Worksheets</b></p> <p><b>1. Box and Whisker Plots</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Box and Whisker Plots Practice</a></li> <li>● <a href="#">Range Practice</a></li> <li>● <a href="#">Quartiles Practice</a></li> <li>● <a href="#">Interquartile Range Practice</a></li> <li>● <a href="#">Five Point Summary Practice</a></li> <li>● <a href="#">Plotting Box and Whisker Plots Practice</a></li> <li>● <a href="#">Comparing Box and Whisker Plots Practice</a></li> <li>● <a href="#">Box and Whisker Plots, Histograms and Dot Plots Practice</a></li> </ul> <p><b>Resources continue on next page</b></p>

Content Descriptor/s (see previous page)	EP Lessons in <b>6. Statistics</b> (continued from previous page)	
	<p><b>8. Further Resources</b></p> <p>Spelling and Definitions</p> <ul style="list-style-type: none"> <li>• <a href="#">Definitions List: Data Representation and Interpretation</a></li> <li>• <a href="#">Definitions MCQ: Data Representation and Interpretation</a></li> <li>• <a href="#">Spelling List: Data Representation and Interpretation</a></li> </ul> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Bivariate Data Analysis</a></li> <li>• <a href="#">Data Sources and Statistical Reports</a></li> <li>• <a href="#">Lines of Best Fit</a></li> <li>• <a href="#">Single Variable Data</a></li> </ul> <p>2. Statistical Reports</p> <ul style="list-style-type: none"> <li>• <a href="#">Evaluating Statistical Reports and Claims: Data Collection Practice</a></li> <li>• <a href="#">Evaluating Statistical Reports and Claims: Data Reporting Practice</a></li> <li>• <a href="#">Evaluating Statistical Graphs: Making our Graph Practice</a></li> <li>• <a href="#">Shape of the Graph Practice</a></li> </ul>	<p><b>9. Post-Year 10 Pathways Supporting Resources</b></p> <p>1. Standard Deviation</p> <ul style="list-style-type: none"> <li>• <a href="#">Mean and Standard Deviation</a></li> <li>• <a href="#">Calculating Standard Deviation</a></li> <li>• <a href="#">Calculating Standard Deviation Using Technology</a></li> <li>• <a href="#">Investigating the Standard Deviation</a></li> <li>• <a href="#">Using the Standard Deviation to Compare Data Sets</a></li> <li>• <a href="#">Comparing the Measures of Spread</a></li> </ul> <p>2. Online Worksheets</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Standard Deviation Practice</a></li> <li>• <a href="#">Calculating the Standard Deviation Practice</a></li> <li>• <a href="#">Calculating the Standard Deviation Using Technology Practice</a></li> <li>• <a href="#">Using the Standard Deviation to Compare Data Sets Practice</a></li> </ul> <p>3. Further Resources</p> <p>Topic Tests</p> <ul style="list-style-type: none"> <li>• <a href="#">Standard Deviation</a></li> </ul>

## Year 10 Pre-Tests

Content Descriptor/s	EP Lessons	
	<ul style="list-style-type: none"> <li>• <a href="#">Year 10 Algebra Pre-Test</a></li> <li>• <a href="#">Year 10 Chance Pre-Test</a></li> <li>• <a href="#">Year 10 Data Pre-Test</a></li> <li>• <a href="#">Year 10 Geometry Pre-Test</a></li> <li>• <a href="#">Year 10 Measurement Pre-Test</a></li> <li>• <a href="#">Year 10 Number Pre-Test</a></li> </ul>	