

AC Mathematics

EP Curriculum Map

Year 5

Number and Algebra

Number and place value

Content Descriptor	Lesson Names
Identify and describe factors and multiples of whole numbers and use them to solve problems	<ul style="list-style-type: none"> • Factors • Identifying Factors • Multiples
Use estimation and rounding to check the reasonableness of answers to calculations	<ul style="list-style-type: none"> • Estimating Measurements • Introduction to Rounding • Leading Digit Approximation
Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and appropriate digital technologies	<ul style="list-style-type: none"> • Multiplication Using Place Value • Multiplying Big Numbers • Applications of Multiples
Solve problems involving division by a one digit number, including those that result in a remainder	<ul style="list-style-type: none"> • Division in Parts
Use efficient mental and written strategies and apply appropriate digital technologies to solve problems	<i>Students use a range of strategies throughout all EP lessons. Students have access to digital technology through our EP calculator.</i>

Fractions and decimals

Content Descriptor	Lesson Names
Compare and order common unit fractions and locate and represent them on a number line	<ul style="list-style-type: none"> • Unit Fractions • Fractions on a Number Line
Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator	<ul style="list-style-type: none"> • Adding Fractions with the Same Denominator • Subtracting Fractions with the Same Denominator
Recognise that the place value system can be extended beyond hundredths	<ul style="list-style-type: none"> • Multiplication Using Place Value • Thousandths and Beyond
Compare, order and represent decimals	<ul style="list-style-type: none"> • Comparing Decimals

Money and financial mathematics

Content Descriptor	Lesson Names
Create simple financial plans	<ul style="list-style-type: none"> Budgeting GST Making a Budget

Patterns and algebra

Content Descriptor	Lesson Names
Find unknown quantities in number sentences involving multiplication and division and identify equivalent number sentences involving multiplication and division	<ul style="list-style-type: none"> Equivalent Number Sentences Gaps in Number Sentences

Measurement and Geometry

Using units of measurement

Content Descriptor	Lesson Names
Choose appropriate units of measurement for length, area, volume, capacity and mass	<ul style="list-style-type: none"> Units of Measurement Unit Prefixes Units of Area Units of Length The Metric System
Calculate perimeter and area of rectangles using familiar metric units	<ul style="list-style-type: none"> Perimeter Finding Perimeters Area of Rectangles
Compare 12- and 24-hour time systems and convert between them	<ul style="list-style-type: none"> 12-Hour Time 24-Hour Time Converting 12- and 24-Hour Time Duration Recording Time

Shape

Content Descriptor	Lesson Names
Connect three-dimensional objects with their nets and other two-dimensional representations	<ul style="list-style-type: none"> 3D Solids Identifying Faces of Prisms and Pyramids Irregular Polygons Nets of Prisms Nets of Pyramids

Location and transformation

Content Descriptor	Lesson Names
Use a grid reference system to describe locations. Describe routes using landmarks and directional language	<ul style="list-style-type: none"> Describing Routes Using Landmarks Locations
Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries	<ul style="list-style-type: none"> Identifying Rotational Symmetry Line Symmetry Line Symmetry in Life Order of Rotational Symmetry Translation on a Grid Reflection on a Grid Rotation on a Grid Rotational Symmetry in Life
Apply the enlargement transformation to familiar two dimensional shapes and explore the properties of the resulting image compared with the original	<ul style="list-style-type: none"> The Enlargement Transformation

Geometric reasoning

Content Descriptor	Lesson Names
Estimate, measure and compare angles using degrees. Construct angles using a protractor	<ul style="list-style-type: none"> Estimating the Size of Angles Measuring Acute and Obtuse Angles Measuring Reflex Angles Angles

Statistics and Probability

Chance

Content Descriptor	Lesson Names
List outcomes of chance experiments involving equally likely outcomes and represent probabilities of those outcomes using fractions	<ul style="list-style-type: none"> Chance Games Likelihood of Events
Recognise that probabilities range from 0 to 1	<ul style="list-style-type: none"> The Likelihood Scale

Data representation and interpretation

Content Descriptor	Lesson Names
Pose questions and collect categorical or numerical data by observation or survey	<ul style="list-style-type: none"> Questions and Answers
Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without	<ul style="list-style-type: none"> Column (Bar) Graphs Data Tables



the use of digital technologies	<ul style="list-style-type: none">• Dot Plots• Dot Plots and Tables
Describe and interpret different data sets in context	<ul style="list-style-type: none">• Reading Column Graphs