

Year 6

Number and Algebra

Number and place value

Content Descriptor	Lesson Names
Identify and describe properties of prime, composite, square and triangular numbers	<ul style="list-style-type: none"> • Calculating Square Numbers • Composite Numbers • Factor Trees • Prime Numbers • Square Numbers • Triangular Numbers
Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers	<ul style="list-style-type: none"> • Applying Addition and Subtraction • Applying Multiplication and Division • Column Multiplication • Long Division • Multiplication Using Rounding and Compensation
Investigate everyday situations that use integers. Locate and represent these numbers on a number line	<ul style="list-style-type: none"> • Introduction to Negative Numbers • Negative Integers • Negative Numbers on the Number Line • Ordering Negative Integers • Ordering Positive Integers • Positive Integers

Fractions and decimals

Content Descriptor	Lesson Names
Compare fractions with related denominators and locate and represent them on a number line	<ul style="list-style-type: none"> • Comparing Fractions • Equivalent Fractions • Fractions and Number Lines
Solve problems involving addition and subtraction of fractions with the same or related denominators	<ul style="list-style-type: none"> • Adding Fractions with Related Denominators • Adding Fractions with the Same Denominator • Subtracting Fractions with Related Denominators • Subtracting Fractions with the Same Denominator
Find a simple fraction of a quantity where the result is a whole number, with and without digital technologies	<ul style="list-style-type: none"> • Fraction of a Quantity
Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers	<ul style="list-style-type: none"> • Adding Decimals • Applications of Adding Decimals • Applications of Subtracting Decimals

	<ul style="list-style-type: none"> Subtracting Decimals
Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies	<ul style="list-style-type: none"> Dividing Decimals Multiplying Decimals
Multiply and divide decimals by powers of 10	<ul style="list-style-type: none"> Dividing Decimals Multiplying Decimals
Make connections between equivalent fractions, decimals and percentages	<ul style="list-style-type: none"> Percentages and Decimals Percentages, Decimals and Fractions

Money and financial mathematics

Content Descriptor	Lesson Names
Investigate and calculate percentage discounts of 10%, 25% and 50% on sale items, with and without digital technologies	<ul style="list-style-type: none"> Discounts Calculating Discounts

Patterns and algebra

Content Descriptor	Lesson Names
Continue and create sequences involving whole numbers, fractions and decimals. Describe the rule used to create the sequence	<ul style="list-style-type: none"> Continuing Patterns Describing Patterns Identifying Patterns
Explore the use of brackets and order of operations to write number sentences	<ul style="list-style-type: none"> Order of Operations Preserving Order of Operations

Measurement and Geometry

Using units of measurement

Content Descriptor	Lesson Names
Connect decimal representations to the metric system	<ul style="list-style-type: none"> Comparing Units of Length Interpreting Units of Capacity Interpreting Units of Length Interpreting Units of Mass
Convert between common metric units of length, mass and capacity	<ul style="list-style-type: none"> Converting Units of Capacity Converting Units of Length Method for Converting Units of Length Converting Units of Mass Applications of Converting Units of Capacity Applications of Converting Units of Mass
Solve problems involving the comparison of lengths and	<ul style="list-style-type: none"> Comparing Units of Length

areas using appropriate units	<ul style="list-style-type: none"> • Area • Comparing Lengths and Objects
Connect volume and capacity and their units of measurement	<ul style="list-style-type: none"> • Capacity and Volume
Interpret and use timetables	<ul style="list-style-type: none"> • Personal Timetables • Reading Timetables • Timetables and Transport • Using Multiple Timetables

Shape

Content Descriptor	Lesson Names
Construct simple prisms and pyramids	<ul style="list-style-type: none"> • Drawing Prisms • Drawing Pyramids • Prisms • Pyramids

Location and transformation

Content Descriptor	Lesson Names
Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies	<ul style="list-style-type: none"> • Reflection • Rotation • Translation
Introduce the Cartesian coordinate system using all four quadrants	<ul style="list-style-type: none"> • Cartesian Planes • Describing Locations with Cartesian Planes • Describing Locations with Coordinates

Geometric reasoning

Content Descriptor	Lesson Names
Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles	<ul style="list-style-type: none"> • Angles Around a Point • Angles in Corners • Angles on Straight Lines • Common Angles • Measuring Angles • Types of Angles • Vertically Opposite Angles

Statistics and Probability

Chance

Content Descriptor	Lesson Names
Describe probabilities using fractions, decimals and percentages	<ul style="list-style-type: none"> • Chance Games from Other Cultures • Writing Probabilities
Conduct chance experiments with both small and large numbers of trials using appropriate digital technologies	<ul style="list-style-type: none"> • Observed Outcomes vs. Expected Outcomes • Probability Experiments
Compare observed frequencies across experiments with expected frequencies	<ul style="list-style-type: none"> • Observed Outcomes vs. Expected Outcomes • Probability Experiments

Data representation and interpretation

Content Descriptor	Lesson Names
Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables	<ul style="list-style-type: none"> • Column (Bar) Graphs • Reading Column (Bar) Graphs • Side-by-Side Column Graphs • Misleading Data and Graphs
Interpret secondary data presented in digital media and elsewhere	<ul style="list-style-type: none"> • Misleading Data and Graphs