

Australian Mathematics Content Map

Education Perfect Maths is an online learning resources with scaffolding smart lessons aligned to the Australian Curriculum. This table aligns the lessons provided by Education Perfect mapped to the Australian Curriculum.

Year 7 Australian Curriculum	
Number and Algebra	
Number and place value	Education Perfect Lessons
Investigate index notation and represent whole numbers as products of powers of prime numbers (ACMNA149)	Multiples Factors Highest Common Factor & Lowest Common Multiple Index Notation Prime & Composite Numbers Prime Factors
Investigate and use square roots of perfect square numbers (ACMNA150)	Perfect Squares Square Roots Square Roots of Non-Perfect Squares
Apply the associative, commutative and distributive laws to aid mental and written computation (ACMNA151)	The Commutative Law The Associative Law The Distributive Law
Compare, order, add and subtract integers (ACMNA280)	Integers Comparing & Ordering Integers Adding & Subtracting Integers
Real numbers	
Compare fractions using equivalence. Locate and represent positive and negative fractions and mixed numbers on a number line (ACMNA152)	Introduction to Fractions Mixed Fractions Fraction Walls and Number Lines
Solve problems involving addition and subtraction of fractions, including those with unrelated denominators (ACMNA153)	Adding Fractions with the Same Denominator Adding Fractions with a Different Denominator Subtracting Fractions with the Same Denominator Subtracting Fractions with a Different Denominator
Multiply and divide fractions and decimals using efficient written strategies and digital technologies (ACMNA154)	Multiplying Fractions Dividing Fractions Multiplying Decimals Dividing Decimals
Express one quantity as a fraction of another, with and without the use of digital technologies (ACMNA155)	Comparing Fractions with the Same Denominator Using Fractions

Round decimals to a specified number of decimal places (ACMNA156)	Introduction to Decimals Adding Decimals Subtracting Decimals Rounding Decimals
Connect fractions, decimals and percentages and carry out simple conversions (ACMNA157)	Comparing Fractions Converting Between Fractions and Decimals Converting Between Percentages and Fractions Application: Town Planning
Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies. (ACMNA158)	Introduction to Percentages Using Percentages
Recognise and solve problems involving simple ratios (ACMNA173)	Ratios
Money and financial mathematics	
Investigate and calculate 'best buys', with and without digital technologies (ACMNA174)	Uses of Financial Mathematics Cost per Item Unit Pricing Budgeting Calculating a Best Buy: Choosing a Usage Plan
Patterns and algebra	
Introduce the concept of variables as a way of representing numbers using letters (ACMNA175)	Introduction to Algebra Arithmetic Laws and Algebra
Create algebraic expressions and evaluate them by substituting a given value for each variable (ACMNA176)	Simplifying Addition and Subtraction Simplifying Multiplication and Division Evaluating Algebraic Expressions Using Formulas
Extend and apply the laws and properties of arithmetic to algebraic terms and expressions (ACMNA177)	Translating Between Word Descriptions and Algebraic Expressions Translating Between Authentic Situations and Algebraic Expressions
Linear and non-linear relationships	
Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point (ACMNA178)	Introduction to Cartesian Planes Coordinates Plotting on a Cartesian Plane Applications of Cartesian Planes

Solve simple linear equations (ACMNA179)	Balancing Equations Concrete Models Flow Charts Visual Methods for Solving Linear Equations Algebraic Methods for Solving Linear Equations Checking Solutions
Investigate, interpret and analyse graphs from authentic data (ACMNA180)	Drawing Graphs Reading Graphs Analysing Graphs
Measurement and Geometry	
Using units of measurement	
Establish the formulas for areas of rectangles, triangles and parallelograms, and use these in problem-solving (ACMMG159)	Units of Length Units of Mass Units of Capacity Perimeter Finding Perimeter of Composite Shapes Area of Rectangles & Squares Area of Triangles Area of Parallelograms Area of Composite Shapes
Calculate volumes of rectangular prisms (ACMMG160)	Volume of Rectangular Prisms Volume of Composite Shapes
Shape	
Draw different views of prisms and solids formed from combinations of prisms (ACMMG161)	Introduction to Solids Prisms Pyramids Curved Solids Extension: Polyhedra Extension: Composite Shapes Extension: Platonic Solids
Location and transformation	
Describe translations, reflections in an axis and rotations of multiples of 90° on the Cartesian plane using coordinates. Identify line and rotational symmetries (ACMMG181)	Line Symmetry Rotational Symmetry Introduction to Cartesian Planes Translation Reflection Rotation Extension: Transformations
Geometric reasoning	
Identify corresponding, alternate and co-interior angles when two	Introduction to Angles

straight lines are crossed by a transversal (ACMMG163)	Angles around a Point
Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning (ACMMG164)	Parallel Lines Angles around Parallel Lines
Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral (ACMMG166) Classify triangles according to their side and angle properties and describe quadrilaterals (ACMMG165)	Types of Triangles Angles in Triangles Quadrilaterals Angles in Quadrilaterals Applying Rules to Quadrilaterals Extension: Triangles Extension: Geometric Reasoning
Statistics and Probability	
Chance	
Construct sample spaces for single-step experiments with equally likely outcomes (ACMSP167)	Introduction to Chance Introduction to Probability
Assign probabilities to the outcomes of events and determine probabilities for events (ACMSP168)	Finding Probabilities Experimental Probability
Data representation and interpretation	
Identify and investigate issues involving numerical data collected from primary and secondary sources (ACMSP169)	Introduction to Data Collecting Data Analysing Numerical Data
Construct and compare a range of data displays including stem-and-leaf plots and dot plots (ACMSP170)	Displaying Data Stem and Leaf Plots Dot Plots and Column (Bar) Graphs Histograms Pie Charts and Divided Bar Graphs Line Graphs Pick your Display Method Extension: Data Representation and Interpretation Extension: Stem and Leaf Plots Extension: Dot Plots
Calculate mean, median, mode and range for sets of data. Interpret these statistics in the context of data (ACMSP171)	The Mean The Median The Mode Comparing Measures of Centre The Range Calculating Measures of Centre and Spread

Describe and interpret data displays using median, mean and range (ACMSP172)

[Finding Measures of Centre and Spread in Data Displays](#)
[Outliers](#)