Curriculum for Australia – Mathematics | Grade 8

Grade	Subject	Chapter Name	Concept Name
Grade 8	Mathematics	1.Algebra techniques and indices	1.The Language of algebra
Grade 8	Mathematics	1.Algebra techniques and indices	2.Substitution and equivalence
Grade 8	Mathematics	1.Algebra techniques and indices	3.Adding and subtracting terms
Grade 8	Mathematics	1.Algebra techniques and indices	4.Multiplying and dividing terms
Grade 8	Mathematics	1.Algebra techniques and indices	5.Adding and subtracting algebraic fractions
Grade 8	Mathematics	1.Algebra techniques and indices	6.Multiplying and dividing algebraic fractions
Grade 8	Mathematics	1.Algebra techniques and indices	7.Expanding brackets
Grade 8	Mathematics	1.Algebra techniques and indices	8.Factorising expressions
Grade 8	Mathematics	1.Algebra techniques and indices	9.Applying algebra
Grade 8	Mathematics	1.Algebra techniques and indices	10.Genearalising Arithmetic
Grade 8	Mathematics	1.Algebra techniques and indices	11.Index laws for multiplication and division
Grade 8	Mathematics	1.Algebra techniques and indices	12.The zero index and power of a power
Grade 8	Mathematics	1.Algebra techniques and indices	13.Perfect square expansion
Grade 8	Mathematics	1.Algebra techniques and indices	14.Difference of two squares
Grade 8	Mathematics	2.Numbers	1.Natural numbers
Grade 8	Mathematics	2. Numbers	2. whole numbers
Grade 8	Mathematics	2.Numbers	3.Integers
Grade 8	Mathematics	2.Numbers	4.Absolute value
Grade 8	Mathematics	2.Numbers	5.Square numbers and square roots
Grade 8	Mathematics	2.Numbers	6.Primes and composites
Grade 8	Mathematics	2.Numbers	7.H.C.F & L.C.M
Grade 8	Mathematics	2.Numbers	8.Rational numbers
Grade 8	Mathematics	2.Numbers	9.Irrational numbers
Grade 8	Mathematics	2.Numbers	10.Decimal numbers
Grade 8	Mathematics	2.Numbers	11.Cube numbers and cube roots
Grade 8	Mathematics	3.Equations	1.Reviewing equations
Grade 8	Mathematics	3.Equations	2.Equivalent equations
Grade 8	Mathematics	3.Equations	3.Equations with fractions
Grade 8	Mathematics	3.Equations	4.Equations with pronumerals on both sides
Grade 8	Mathematics	3.Equations	5.Equations with brackets
Grade 8	Mathematics	3.Equations	6.Solve simple quadratic equations
Grade 8	Mathematics	3.Equations	7.Formulas & relationships
Grade 8	Mathematics	3.Equations	8.Application problems
Grade 8	Mathematics	3.Equations	9.Inequalities
Grade 8	Mathematics	3.Equations	10.Solving inequalities
Grade 8	Mathematics	3.Equations	11.Graphical solutions
Grade 8	Mathematics	3.Equations	12.Solution by elimination
Grade 8	Mathematics	3.Equations	13.Solution by substitution
Grade 8	Mathematics	4.Measurement and pythagoras theorem	1.Length and perimeter
Grade 8	Mathematics	4.Measurement and pythagoras theorem	2.Circumference of circles
Grade 8	Mathematics	4.Measurement and pythagoras theorem	3.Area
Grade 8	Mathematics	4.Measurement and pythagoras theorem	4.Area of special quadrilaterals
Grade 8	Mathematics	4.Measurement and pythagoras theorem	5.Area of circles
Grade 8	Mathematics	4.Measurement and pythagoras theorem	6.Area of sectors and composite figures
Grade 8	Mathematics	4.Measurement and pythagoras theorem	7.Surface area of prisms

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Grade	Subject	Chapter Name	Concept Name
Grade 8	Mathematics	4.Measurement and pythagoras theorem	8.Volume and capacity
Grade 8	Mathematics	4.Measurement and pythagoras theorem	9.Volume of prisms and cylinders
Grade 8	Mathematics	4.Measurement and pythagoras theorem	10.Time
Grade 8	Mathematics	4.Measurement and pythagoras theorem	11.Introduction to pythagoras theorem
Grade 8	Mathematics	4.Measurement and pythagoras theorem	12.using pythagoras theorem
Grade 8	Mathematics	4.Measurement and pythagoras theorem	13.Calculating the length of a shorter side
Grade 8	Mathematics	4.Measurement and pythagoras theorem	14.Converse of pythagoras theorem
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	1.Equivalent fractions
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	2.Computation with fractions
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	3.Decimal place value and fraction to decimal conversations
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	4.Computation with decimals
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	5.terminating decimals and recurring decimals & rounding
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	6.Converting fractions, decimals and percentages
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	7.Expressing one quantity as a percentage of another
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	8.Finding a percentage and expressing as a percentage
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	9.Decreasing and increasing by a percentage
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	10.The goods and services tax
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	11.Calculating percentage change, profit and loss
Grade 8	Mathematics	5.Fractions, decimals, percentages & financial mathematics	12.Simple interest
Grade 8	Mathematics	6.Ratios and rates	1.Introducing ratios
Grade 8	Mathematics	6.Ratios and rates	2.Simplifying ratios
Grade 8	Mathematics	6.Ratios and rates	3.Dividing a quantity in a given ratio
Grade 8	Mathematics	6.Ratios and rates	4.Scale drawing
Grade 8	Mathematics	6.Ratios and rates	5.Introducing rates
Grade 8	Mathematics	6.Ratios and rates	6.Ratios, rates and the unitary methods
Grade 8	Mathematics	6.Ratios and rates	7.Solving rate problems
Grade 8	Mathematics	6.Ratios and rates	8.Speed
Grade 8	Mathematics	6.Ratios and rates	9.Distance- Time graphs
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	1.The language, notation and convention of angles
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	2.Transversal lines and Parallel lines
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	3.triangles
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	4.Quadrilaterals
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	5.Polygons
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	6.Line symmetry and rotational symmetry
Grade 8	Mathematics	7.Angle relationships & Properties of geometrical figures	7.Eulers formula for 3D solids

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Grade	Subject	Chapter Name	Concept Name
Grade 8	Mathematics	8.Linear relationships	1.The Cartesian plane
Grade 8	Mathematics	8.Linear relationships	2.Using rules, tables and graphs to explore linear relationships
Grade 8	Mathematics	8.Linear relationships	3.Finding the rule using a table of values
Grade 8	Mathematics	8.Linear relationships	4.Gradient
Grade 8	Mathematics	8.Linear relationships	5.Gradient-intercept form
Grade 8	Mathematics	8.Linear relationships	6.The x- intercept
Grade 8	Mathematics	8.Linear relationships	7.Equation of a line
Grade 8	Mathematics	8.Linear relationships	8.Solving linear equations using graphical techniques
Grade 8	Mathematics	8.Linear relationships	9.Linear graphs
Grade 8	Mathematics	8.Linear relationships	10.Non- Linear graphs
Grade 8	Mathematics	9.Transformations and congruence	1.Reflection
Grade 8	Mathematics	9.Transformations and congruence	2.Translation
Grade 8	Mathematics	9.Transformations and congruence	3.Rotation
Grade 8	Mathematics	9.Transformations and congruence	4.Congruent figures
Grade 8	Mathematics	9.Transformations and congruence	5.Congruent triangles
Grade 8	Mathematics	9.Transformations and congruence	6.Similar figures
Grade 8	Mathematics	9.Transformations and congruence	7.Similar triangles
Grade 8	Mathematics	9.Transformations and congruence	8.Proof using congruence
Grade 8	Mathematics	9.Transformations and congruence	9.Properties of quadrilaterals
Grade 8	Mathematics	9.Transformations and congruence	10.Enlargements and reductions
Grade 8	Mathematics	10.Data collection, representationand analysis	1.Types of data
Grade 8	Mathematics	10.Data collection, representationand analysis	2.Dot plots and column graphs
Grade 8	Mathematics	10.Data collection, representationand analysis	3.Line graphs
Grade 8	Mathematics	10.Data collection, representationand analysis	4.Travel graphs
Grade 8	Mathematics	10.Data collection, representationand analysis	5.Sector graphs and divided bar graphs
Grade 8	Mathematics	10.Data collection, representationand analysis	6.Frequency distribution tables
Grade 8	Mathematics	10.Data collection, representationand analysis	7.Frequency histograms and frequency polygons
Grade 8	Mathematics	10.Data collection, representationand analysis	8.Mean, median , mode and range
Grade 8	Mathematics	10.Data collection, representationand analysis	9.inquartile range
Grade 8	Mathematics	10.Data collection, representationand analysis	10.Stem and leaf plots
Grade 8	Mathematics	10.Data collection, representationand analysis	11.Surveying and sampling
Grade 8	Mathematics	11.Sets and venn diagrams	1.sets
Grade 8	Mathematics	11.Sets and venn diagrams	2.Union and intersection
Grade 8	Mathematics	11.Sets and venn diagrams	3.Venn diagrams
Grade 8	Mathematics	12.Probability	1.Sample space
Grade 8	Mathematics	12.Probability	2.Theoretical probability
Grade 8	Mathematics	12.Probability	3.compound events
Grade 8	Mathematics	12.Probability	4.Experimental probability
Grade 8	Mathematics	12.Probability	5.Two way tables