Australian National Curriculum and Maths Wiz (Secondary)

MATHS WIZ

KINETIC Education®
MATHS AND ENGLISH WIZ

Australian National Curriculum and Maths Wiz (Secondary)

CONTENTS

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YEAR 7

AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA150 Establish understanding of the language and processes of counting by naming numbers in sequences, initially to and from 20, moving from any starting point.	- Square Roots & Cube Roots - Square Numbers
ACMNA151 Apply the associative, commutative and distributive laws to aid mental and written computation.	- Comparing Numbers - Missing Signs - Order of Operations
ACMNA280 Compare, order, add and subtract integers.	- Directed Numbers - Adding and Subtracting on the Number Line - Taking away a Larger Number - Negatives Challenge - Negative Numbers
Real Numbers	
ACMNA152 Compare fractions using equivalence. Locate and represent fractions and mixed numerals on a number line.	- What is a Fraction - Equivalent Fractions 1 - Equivalent Fraction 2 - Comparing Fractions
ACMNA153 Solve problems involving addition and subtraction of fractions, including those with unrelated denominators.	- Adding and Subtracting Fractions
ACMNA154 Multiply and divide fractions and decimals using efficient written strategies and digital technologies.	- Multiplying Fractions - Dividing Fractions - Earning Money - Calculator: Multiplication and Division - Division and the 1 Times Table - Multiplication of Decimals
ACMNA155 Express one quantity as a fraction of another, with and without the use of digital technologies.	- Simplifying Fractions

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA156 Round decimals to a specified number of decimal places.	- Decimal Rounding*
ACMNA157 Connect fractions, decimals and percentages and carry out simple conversions.	- Ordering Decimal Fractions - Changing Decimal Fractions - Changing Harder Fractions to Decimals - Converting Mixed to Improper Fractions - Changing Decimals to Fractions - Changing Easy Fractions to Decimals - Percentage is a Special Fraction - Writing Percentages as Fractions - Changing Fractions to Percentages - Converting Improper to Mixed Fractions - Changing Percentages into Decimals - Changing Decimals to Percentages
ACMNA158 Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies.	- Percentage Problems
ACMNA173 Recognise and solve problems involving simple ratios.	- What is a Ratio? - Problem Solving with Ratios
Money and Financial Mathematics	
ACMNA174 Investigate and calculate 'best buys', with and without digital technologies.	- Shopping With Decimals
Patterns and Algebra	
ACMNA175 Introduce the concept of variables as a way of representing numbers using letters.	- Find the Pronumeral - Adding and Subtracting Pronumerals - Replacing a Pronumeral With a Number - Meet The Pronumeral
ACMNA176 Create algebraic expressions and evaluate them by substituting a given value for each variable.	- Multiplying Pronumerals - Simple Inequalities - Further Questions - Speed, Distance and Time - Adding and Subtracting Pronumerals

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA177 Extend and apply the laws and properties of arithmetic to algebraic terms and expressions.	- Multiplying Coefficients - Like and Unlike Terms - Simple Algebra Division - The Basic Rule - Equations Involving More Than One Step - Further Questions - Equations With Fractions - Application of Equations - Multiplying Pronumerals - Equation Involving Brackets - Changing the Subject of an Equation
Linear and Non-linear Relationships	
ACMNA178 Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point.	- Co-ordinates of a Point - Travel Graphs
ACMNA179 Solve simple linear equations.	- Balancing an Equation - The Basic Rule - Equations Involving More Than One Step
ACMNA180 Investigate, interpret and analyse graphs from authentic data.	- Travel Graphs
Measurement and Geometry – Using Units of Measurement	
ACMMG159 Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving.	- Summary of Common Areas - Composite Figures - Surface Area of a Solid
ACMMG160 Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving.	- Volume of a Prism
Shape	
ACMMG161 Draw different views of prisms and solids formed from combination of prisms.	- Isometric and Orthographic Drawings

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Location and Transformation	
ACMMG181 Describe translations, reflections in an axis, and rotations of multiples of 90 degrees on the Cartesian plane using co-ordinates. Identify line and rotational symmetries.	- Axes of Symmetry - Transformations in Cartesian Plane*
Geometric Reasoning	
ACMMG163 Identify corresponding, alternate and co-interior angles when two parallel straight lines are crossed by a transversal.	- Angle Rules - Parallel Lines
ACMMG164 Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning.	- Angle Rules - Parallel Lines
ACMMG165 Classify triangles according to their side and angle properties and describe quadrilaterals.	- Angles of a Triangle - Special Triangles - Triangle Theorems - Quadrilaterals
ACMMG166 Demonstrate that the angle sum of a triangle is 180 degrees and use this to find the angle sum of a quadrilateral.	- Angles of a Triangle - Special Triangles - Quadrilaterals
Statistics and Probability - Chance	
ACMSP167 Construct sample spaces for single-step experiments with equally likely outcomes.	- The Basic Law - Range of Probabilities
ACMSP168 Assign probabilities to the outcomes of events and determine probabilities for events.	- The Basic Law - Range of Probabilities

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Data Representation and Interpretation	
ACMSP169 Identify and investigate issues involving continuous or large count data collected from primary and secondary sources.	- Representation of Data
ACMSP170 Construct and compare a range of data displays including stem-and-leaf plots and dot plots.	- Histograms
ACMSP171 Calculate mean, median mode and range for sets of data. Interpret these statistics in the context of data.	- Mean Median Mode and Range - Frequency Distribution Table
ACMSP172 Describe and interpret data displays and the relationship between the median and mean.	- Frequency Distribution Table

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Number and Place Value	
ACMSP182 Use index notation with numbers to establish the index laws with positive integral indices and the zero index.	- Index Laws with Numbers*
ACMNA183 Carry out the four operations with integers, using efficient mental and written strategies and appropriate digital technologies.	- Multiplying Directed Numbers - Dividing Directed Numbers - Balancing an Equation
Real Numbers	
ACMNA184 Investigate terminating and recurring decimals.	- Repeating Decimals

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA186 Investigate the concept of irrational numbers, including Pi.	- Surds are Irrational Numbers
ACMNA187 Solve problems involving the use of percentages, including percentage increases and decreases, with and without digital technologies.	- Percentage Problems
ACMNA188 Solve a range of problems involving rates and ratios, with and without digital technologies.	- Problem Solving With Ratios - Rates
Money and Financial Mathematics	
ACMNA189 Solve problems involving profit and loss, with and without digital technologies.	- Profit and Loss*
Patterns and Algebra	
ACMNA190 Extend and apply the distributive law to the expansion of algebraic expressions.	- Removing Brackets
ACMNA191 Factorise algebraic expressions by identifying numerical factors.	- Factorising
ACMNA192 Simplify algebraic expressions involving the four operations.	- Find the Pronumeral - Like and Unlike Terms - Simple Algebra Division

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Linear and Non-linear Relationships	
ACMNA193 Plot linear relationships on the Cartesian plane with and without the use of digital technologies.	- Coordinates of a Point - Speed, Distance and Time, Travel Graphs - Linear Models
ACMNA194 Solve linear equations using algebraic and graphical techniques. Verify solutions by substitution.	- The Basic Rule - Equations With Fractions - Application of Equations - Further Questions - Equations Involving More Than One Step - Changing The Subject of An Equation - Equations Involving Brackets - Addition & Subtraction
Using Units of Measurement	
ACMMG195 Choose appropriate units of measurement for area and volume and convert from one unit to another.	- Important Units
ACMMG196 Find perimeters and areas of parallelograms, rhombuses and kites.	- Summary of Common Areas
ACMMG197 Investigate the relationship between features of circles such as circumference, area, radius and diameter. Use formulas to solve problems involving circumference and area.	- Area and Perimeter of a Circle - Composite Figures - Parts of a Circle
ACMMG198 Develop the formulas for volume of rectangular and triangular prisms and prisms in general. Use these formulas to solve problems involving volume.	- Volume of a Prism
ACMMG199 Solve problems involving duration, including using 12- and 24- hour time within a single time zone.	- Time Taken - Speed, Distance and Time

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Geometric Reasoning	
ACMMG200 Define congruence of plane shapes using transformations.	- Application of Congruency
ACMMG201 Develop the conditions for congruence of triangles.	- Tests for Congruency
Using Units of Measurement	
ACMG202 Establish properties of quadrilaterals using congruent triangles and angle properties, and solve related numerical problems using reasoning.	- Quadrilaterals - Congruent Triangles
Statistics and Probability - Chance	
ACMSP204 Identify complementary events and use the sum of probabilities to solve problems.	- The Basic Law of Probability - Range of Probabilities
ACMSP205 Describe events using language of 'at least' exclusive 'or' (A of B but not both), inclusive 'or' (A of B or both) and 'and'.	- Addition Rule (Probability)
ACMSP292 Represent such events in two-way tables and Venn diagrams and solve related problems.	- Venn Diagrams and Tree Diagrams - Set Theory - Venn Diagrams
Data Representation and Interpretation	
ACMSP206 Explore the practicalities and implications of obtaining representative data using a variety of investigative processes.	- Sampling - Sample Statistics

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMSP207 Investigate the effects of individual data values, including outliers, on the mean and median.	- Mean, Median, Mode and Range - Scatter Plots
ACMSP293 Explore the variation of means and proportions in representative data.	- Variation of Means and Proportions*

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ACMNA208 Solve problems involving direct proportion. Explore the relationship between graphs and equations corresponding to simple rate problems.	- Rates - Proportion Method
ACMNA209 Apply index laws to numerical expressions with integer indices.	- Square Numbers - Basic Law of Indices - More Advanced Laws - Multiplication of Surds - Division of Surds - Simplifying Surds - Adding and Subtracting Surds - Rationalising the Denominator - Surd Problem
ACMNA210 Express numbers in scientific notation.	- Scientific Notation - Scientific Notation: Large Numbers - Scientific Notation: Small Numbers
Money and Financial Mathematics	
ACMNA211 Solve problems involving simple interest.	- Earning Money - Simple Interest - Purchasing by Instalments - Further Question on Money
Patterns and Algebra	
ACMNA212 Extend and apply index laws to variables, using positive integral indices and the zero index.	- Division of Surds - Simplifying Surds - Surd Problems - Multiplication of Surds - Multiplying Pronumerals - Equations Involving Brackets - Adding and Subtracting Surds - Rationalising the Denominator

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA213 Apply the distributive law to the expansion of algebraic expressions, including binomials, and collect like terms where appropriate.	- Equations Involving Brackets - Removing One Set of Brackets - Removing Two Sets of Brackets - Further Questions with Indices - Brackets With Surds - Further Questions
Linear and Non-linear Relationships	
ACMNA214 Find the distance between two points located on a Cartesian plane using a range of strategies, including graphing software.	- Distance between Two Points - Further Questions on Gradients - Further Questions - Using Graphs to Solve Simultaneous Equations - Simultaneous Equations by Elimination
ACMNA215 Sketch linear graph using the coordinates of two points.	- Graphing Linear Equations - Sketching a Line using: y = mx + c
ACMNA294 Find the midpoint and gradient of a line segment interval on the Cartesian plane using a range of strategies, including graphing and software.	- Gradient of a Line - Midpoint Formula - The Two Point Formula - Further Questions - Further Questions on Coordinates - The Point-Gradient Formula - Gradient: Intercept Form of a Line
ACMNA296 Sketch simple non-linear relations with and without the use of digital technologies.	- Rate of Change of Non-linear Functions
Measurement and Geometry - Using Units of Measurement	
ACMMG216 Calculate the areas of composite shapes.	- Composite Figures - Summary of Common Areas
ACMMG217 Calculate the surface area and volume of cylinders and solve related problems.	- Surface Area of a Cylinder - Volume of a Cylinder
ACMMG218 Solve problems involving the surface area and volume of right prisms.	- Volume of a Solid - Other Solid Shapes

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMMG219 Investigate very small and very large time scales and intervals.	
Geometric Reasoning	
ACMMG220 Use the enlargement transformation to explain similarity and develop the conditions for triangles to be similar.	- Tests for Congruency - Applications of Congruency Tests
ACMMG221 Solve problems using ratio and scale factors in similar figures.	- What is a Ratio - Equivalent Ratios - Simplifying Ratios - Problem Solving With Ratios - Scale Drawings - Dividing a Quantity into a Given Ratio
Pythagoras Theorem and Trigonometry	
ACMMG222 Investigate Pythagoras Theorem and its application to solving simple problems involving right angled triangles.	- Pythagoras Theorem - Problems Using Pythagoras and Trig
ACMMG223 Use similarity to investigate the constancy of the sine, cosine and tangent ratios for a given angle in right angled triangles.	- Further Questions on Trig - Review of Basic Trigonometry
ACMMG224 Apply trigonometry to solve right angled triangle problems.	- Sine Ratio - Cosine Ration - Tangent Ration - Degrees and Minutes - Trig. Problems Using Pythagoras Theorem - Naming The Sides - Further Questions - Unknown in the Denominator - Angles Larger than 90deg - Finding the Size of an Unknown Angle - Finding the Length of an Unknown Side
Statistics and Probability - Chance	
ACMSP225 List all outcomes for two-step chance experiments, both with and without replacement using tree diagrams or arrays. Assign probabilities to outcomes and determine probabilities for events.	- The Basic Law - Range of Probabilities - Tossing Coins - Replacement Problems - Non-replacement - Probabilities Involving 2 Dice - Further Questions on Probability

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMSP226 Calculate relative frequencies from given or collected data to estimate probabilities of events 'and' or 'or'.	- Grouped Frequency Table - Cumulative Frequency - Cumulative Frequency histogram
ACMSP227 Investigate reports of surveys in digital media and elsewhere for information on how data were obtained to estimate population means and medians.	- Sampling
Data Representation and Interpretation	
ACMSP228 Identify everyday questions and issues involving at least one numerical and at least one categorical variable, and collect data directly from secondary sources.	
ACMSP282 Construct back-to-back stem and leaf plots and histograms and describe data, using terms including 'skewed', 'symmetric' and 'bi modal'.	- Cumulative Frequency Histogram
ACMSP283 Compare data display using mean, median and range to describe and interpret numerical data sets in terms on location (centre) and spread.	- Mean Deviation - Standard Deviation - Using the Standard Deviation
ACMSP284 Investigate techniques for collection data, including census, sampling and observation.	- Representation Data - Sampling

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Data Representation and Interpretation	
Money and Financial Mathematics	
ACMNA229 Connect the compound interest formula to repeated applications of simple interest using appropriate digital technologies.	- Compound Interest - Constant Multiplier Key for Compound Interest - Depreciation - Further Questions on Money

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Patterns and Algebra	
ACMNA230 Factorise algebraic expressions by taking out a common algebraic factor.	- Factorising Binomials - Factorising Trinomials - Factorising Harder Trinomials - Solving Quadratic Equations - Further Questions With Indices - The Cross Sword Method of Factoring - Factorising With Division - Factorising Four Term Expressions
ACMNA231 Simplify algebraic products and quotients using index laws.	- Basic Laws of Indices - More Advanced Laws - Further Questions With Indices
ACMNA232 Apply the four operations to simple algebraic fractions with numerical denominators.	- Equations With Fractions
ACMNA233 Expand binomial products and factorise monic quadratic expressions using a variety of strategies.	- Perfect Squares - Further Questions - Quadratic Equations - Factorising Binomials - Factorising Trinomials - The Cross Sword Method of Factorising - The Difference of Two Squares - Solving Quadratic Equations - Factorising Harder Trinomials - Factorising Four Term Expressions - Factorising With Division
ACMNA234 Substitute values into formulas to determine an unknown.	- Substitution - Further Questions - Constructing Formulas - Substituting into Formulas - Application of Equations - Constructing Formulas into Formulas - Further Questions on Coordinates - Determining whether a Point lies on a Line
ACMNA235 Solve problems involving linear equations, including those derived from formulas.	- Constructing Formulas - Further Questions - The Two Point Formula - The Point Gradient Formula - Further Questions on Gradients - Constructing Formulas from Formulas - Changing the Subject of a Formula - General Form of a Straight Line
ACMNA236 Solve linear inequalities and graph their solutions on a number line.	
ACMNA237 Solve linear simultaneous equations, using algebraic and graphical techniques including using digital technology.	- Further Questions - Using Graphs to Solve Simultaneous Equations - Simultaneous Equations by Elimination - Simultaneous Equations by Substitution - Further Question on Co-ordinates

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA238 Solve problems involving parallel and perpendicular lines.	- Parallel Lines
ACMNA239 Explore the connection between algebraic and graphical representations of relations such as simple quadratics, circles and exponentials using digital technology as appropriate.	- The Parabola - Finding The Intercept With a Graphics Calculator
Linear and Non-linear Relationships	
ACMNA240 Solve linear equations involving simple algebraic fractions.	
ACMNA241 Solve simple quadratic equations using a range of strategies	- Perfect Squares - Further Questions - Factorising Binomials - Factorising Trinomials - The Quadratic Formula - Quadratic Equations - The Difference of Two Squares - Solving Quadratic Equations - Factorising Four Term Expressions - Factoring Harder Trinomials - Factorising With Division - The Cross Sword Method Of Factoring
Measurement and Geometry	
Using units of Measurement	
ACMMG242 Solve problems involving surface area and column for a range of prisms, cylinders and composite solids.	- Other Solid Shapes - Further Questions on Shapes
Geometric Reasoning	
ACMMG243 Formulate proofs involving congruent triangles and angle properties.	- Angles of a Triangle - Special Triangles - Triangle Problems - Tests For Congruency - The Angle Sum of a Polygon - Constructions in Geometry - Applications of Congruency Tests
ACMMG244 Apply logical reasoning, including the use of congruence and similarity, to proofs and numerical exercises involving plane shapes.	- Similar Triangles - Tests for Congruency - Applications of Congruency Tests

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Pythagoras Theorem and Trigonometry	
ACMMG245 Solve right angled triangle problems including those involving direction and angles of elevation and depression.	- Angles of Elevation and Depression
Statistics and Probability - Chance	
ACMSP246 Describe the results of two and three step chance experiments both with and without replacements assign probabilities to outcomes and determine probabilities of events. Investigate the concept of independence.	- Replacement Problems - Non-replacement - Further Questions on Probability
ACMSP247 Use the language of 'if….then, ' given', 'of' 'knowing that' to investigate conditional statements and identify common mistakes in interpreting such language.	
Data Representation and Interpretation	
ACMSP248 Determine quartiles and interquartile range.	- Interpreting Statistics
ACMSP249 Construct and interpret box plots and use them to compare data sets.	- Constructing a Box Plot
ACMSP250 Compare shapes of box plots to corresponding histograms and dot plots	- Histograms
ACMSP251 Use scatter plots to investigate and comment on relationships between two continuous variables.	- Scatter Plots - Using Scatter Plots to Identify Relationships

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Number and Algebra - Number and Place Value	
ACMSP 252 Investigate and describe bivariate numerical data where the independent variable is time.	- Linear Models
ACMSP253 Evaluate statistical reports in the media and other places by linking claims to displays, statistics and representative data.	- Interpreting Statistics - Pie Graphs

YEAR 10A

Number and Algebra – Real Numbers	
ACMNA264 Define rational and irrational numbers and perform operations with surds and fractional indices.	- Rational Numbers - Surds
ACMNA265 Use the definition of a logarithm to establish and apply the laws of logarithms	- Logarithms
Patterns and Algebra	
ACMNA266 Investigate the concept of a polynomial and apply to the factor and remainder theorems to solve problems	- Remainder and Factor Theorem
Linear and Non-linear Relationships	
ACMNA267 Describe, interpret and sketch parabolas, hyperbolas, circles and exponential functions and their transformations.	- The Parabola - Definition of Parabola - The Hyperbola - Exponential Models - Circles and Other Curves - Exponential Relations - The Role of H and K in Parabolas - The Role of A in Parabolas

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
ACMNA268 Apply understanding of polynomials to sketch a range of curves and describe the features of these curves from their equation.	- Curve Sketching - Curve Sketching: Translation and Dilation
ACMNA269 Factorise monic and non-monic quadratic expressions and solve a wide range of quadratic equations derived from a variety of contexts.	- Factoring Binomials - Factoring Trinomials - Factoring 4-Term Expressions - The Cross Sword Method of Factoring - Factoring Harder Tri-Nomials
ACMNA270 Solve simple exponential equations.	- Basic Laws of Indices - Indices with Radicals - More Advanced Laws
Measurement and Geometry	
Using Units of Measurement	
ACMMG271 Solve problems involving surface area and volume of right pyramids, right cones, spheres and related composite solids.	- Surface Area of a Prism - Composite Figures - Area of an Annulus - Volume of Pyramid, Cone and Sphere - Surface Area of a Cylinder - Surface Area of a Solid - Surface Area of a Sphere
Geometric Reasoning	
ACMMG272 Provide and apply angle and chord properties of circles.	- The Circle - Parts of a Circle - Angle in a Semi-circle - Angles at the Centre of a Circle - Angles in the Same Segment - Cyclic Quadrilaterals - Tangent to a Circle - Area and Circumference of a Circle
ACMMG274 Provide and apply angle and chord properties of circles.	- The CAST Rule
ACMMG275 Solve simple trigonometric equations.	- Problems Using Pythagoras and Trig - Further Trig Problems
ACMMG276 Apply 'Pythagoras' theorem and trigonometry to solving three-dimensional problems in right- angled triangles.	- The Theorem of Pythagoras - Problems Using Pythagoras and Trig

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AUSTRALIAN NATIONAL CURRICULUM	KINETIC EDUCATION LESSONS
Statistics and Probability	
Chance	
ACMSP277 Investigate reports of studies in digital media and elsewhere for information on the planning and implementation of such studies, and the report in of variability.	- N/A
Data Representation and Interpretation	
ACMSP278 Calculate and interpret the mean and standard deviation of data and use these to compare data sets.	- Normal Distribution Using Mean and Standard Deviation - Standard Deviation - Using the Standard Deviation
ACMSP279 Use information technologies to investigate bivariate numerical data sets. Where appropriate use a straight line to describe the relationship allowing for variation,	- Variation

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