# Mathletics
## Northern Territory – Australian Curriculum v9
### Activities (Courses) and Skill Quests



**Years 9 – 10**
May, 2024

Mathletics

# Year 9 – Skill Quests

## 1 Algebra

| Outcome | Quests | Content |
|---|---|---|
| AC9M9A01 - apply the exponent laws to numerical expressions with integer exponents and extend to variables | Exponent laws with numerical expressions | Mixed exponent laws numerical expressions |
| | | Exponent laws: positive & negative integer index |
| | Exponent laws with variables | Mixed exponent laws algebraic expressions |
| AC9M9A02 - simplify algebraic expressions, expand binomial products and factorise monic quadratic expressions | Apply the distributive law | Applying the distributive law |
| | Binomial expansions & factorisations | Expanding binomial products |
| | | Binomial product special results |
| | | Factorising monic quadratic trinomials |
| | | Further binomial expansions |
| AC9M9A03 - find the gradient of a line segment, the midpoint of the line interval and the distance between 2 distinct points on the Cartesian plane | Find the distance between two points | Distance between two points without the formula |
| | | Distance between two points using the formula |
| | Find the midpoint between two points | Finding the midpoint without the formula |
| | | Finding the midpoint using the formula |
| | Find the gradient between two points | Finding the gradient without the formula |
| | | Finding the gradient using the formula |
| AC9M9A04 - identify and graph quadratic functions, solve quadratic equations graphically and numerically, and solve monic quadratic equations with integer roots algebraically, using graphing software and digital tools as appropriate | Graph & solve quadratic relationships | Using table of values to graph quadratics |
| | | Solving simple nonlinear relationships |
| | | Understanding parabolas |
| | Solve simple quadratic equations | Solving simple quadratic equations |

# 2 Measurement

| Outcome | Quests | Content |
|---|---|---|
| AC9M9M01 - solve problems involving the volume and surface area of right prisms and cylinders using appropriate units | Surface area & volume of cylinders | Volumes of cylinders |
| | | Problem-solving with volume |
| | | Surface area of cylinders |
| | Surface area of right prisms | Surface area of right prisms with nets |
| | | Surface area problems |
| AC9M9M02 - solve problems involving very small and very large measurements, time scales and intervals expressed in scientific notation | Large & small amounts of time | Significant figures |
| | | Understanding prefixes of numbers |
| | | Exponent notation for large/small numbers |
| | | Large & small time intervals |
| | | Limits of accuracy |
| AC9M9M03 - solve spatial problems, applying angle properties, scale, similarity, Pythagoras' theorem and trigonometry in right-angled triangles | Pythagoras' theorem | Identifying sides on right-angled triangles |
| | | Exploring the sides of a right-angled triangle |
| | | Finding a shorter side using Pythagoras' theorem |
| | | Finding the hypotenuse using Pythagoras' theorem |
| | | Solving problems involving Pythagoras' theorem |
| | | Using the converse of Pythagoras' theorem |
| | | Solving Pythagoras' theorem problems: exact values |
| | Apply trigonometry | Finding the missing side using trig ratios |
| | | Finding the missing angle using trig ratios |
| | | Solving 2D & 3D problems using trig ratios |
| | Scale factors with similar figures | Scale factors |
| AC9M9M05 - use mathematical modelling to solve practical problems involving direct proportion, rates, ratio and scale, including financial contexts; formulate the problems and interpret solutions in terms of the situation; evaluate the model and report methods and findings | Proportion, rates, graphs & equations | Unit rates |
| | | Converting rates |
| | | Direct proportion |
| | | Indirect/inverse proportion |
| | | Direct & inversely proportionate graphs |
| | | Interpret & use conversion graphs |
| | | The constant of proportionality |
| | | Graph equations of direct proportion |
| | | Distance, speed & time problems |
| | | Travel graphs |

| | Ratio & scales | Ratio & scales in real life |
|---|---|---|

# 3 Space

| Outcome | Quests | Content |
|---|---|---|
| AC9M9SP01 - recognise the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles using properties of similarity | Introduce trigonometry | Introducing trigonometry |
| | | Calculating trigonometric ratios & angles |
| AC9M9SP02 - apply the enlargement transformation to shapes and objects using dynamic geometry software as appropriate; identify and explain aspects that remain the same and those that change | Similar triangles | Introducing similarity |
| | | Similar triangles |
| | Area & volume scale factors | Area & volume scale factors |

# 4 Statistics

| Outcome | Quests | Content |
|---|---|---|
| AC9M9ST01 - analyse reports of surveys in digital media and elsewhere for information on how data was obtained to estimate population means and medians | Make population predictions from data | Using data to make predictions about populations |
| AC9M9ST03 - represent the distribution of multiple data sets for numerical variables using comparative representations; compare data distributions with consideration of centre, spread and shape, and the effect of outliers on these measures | Construct & interpret data displays | Constructing & interpreting data displays |
| | Compare data displays | Comparing data displays |
| AC9M9ST05 - plan and conduct statistical investigations involving the collection and analysis of different kinds of data; report findings and discuss the strength of evidence to support any conclusions | Collect everyday data | Collecting everyday data |

# 5 Probability

| Outcome | Quests | Content |
|---|---|---|
| AC9M9P01 - list all outcomes for compound events both with and without replacement, using lists, tree diagrams, tables or arrays; assign probabilities to outcomes | List outcomes & find probabilities | The fundamental counting principle |
| | | Two-step chance experiments with replacement |
| | | Two-step chance experiments without replacement |
| AC9M9P02 - calculate relative frequencies from given or collected data to estimate probabilities of events involving "and", inclusive "or" and exclusive "or" | Calculate & use relative frequency | Calculating & using relative frequency |

# Year 9 – Activities

## 1 Number

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M9N01 - recognise that the real number system includes the rational numbers and the irrational numbers, and solve problems involving real numbers using digital tools | Problem Solving & Reasoning<br>Strand: Number & Algebra<br>Sub-Strand: Number Theory<br>Level 7 – 9 | Square postage stamp |
| | | Irrational bounds |
| | Ebook<br>Year 11 | Rational numbers |

# 2 Algebra

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M9A01 - apply the exponent laws to numerical expressions with integer exponents and extend to variables | A-Exponent laws | Negative Indices |
| | | Zero Exponent and Algebra |
| | | Multiplication with Indices |
| AC9M9A02 – simplify algebraic expressions, expand binomial products and factorise monic quadratic expressions | A- Algebraic expressions | Simplifying Expressions |
| | | Expanding Binomial Products |
| | | Highest Common Algebraic Factor |
| | | Factorising |
| | | Factorising with Indices |
| | | Factoring Quadratics 1 |
| AC9M9A03 - find the gradient of a line segment, the midpoint of the line interval and the distance between 2 distinct points on the Cartesian plane | A- Coordinate Geometry | Distance Between Two Points |
| | | Midpoint by Formula |
| | | Slope of a Line |
| | | Gradient |
| | | Equation from Two Points |
| AC9M9A04 - identify and graph quadratic functions, solve quadratic equations graphically and numerically, and solve monic quadratic equations with integer roots algebraically, using graphing software and digital tools as appropriate | A-Quadratic equations | Quadratic Equations 1 |
| | | Monic Quadratic Trinomial Equations |
| | | Quadratic Equations 2 |
| | | Checking Quadratic Solutions |
| | | Monic Quadratic Equations by Factorising |
| | | Graphing Parabolas |
| | | Constructing Formulae |
| AC9M9A05 – use mathematical modelling to solve applied problems involving change including financial contexts; formulate problems, choosing to use either linear or quadratic functions; interpret solutions in terms of the situation; evaluate the model and report methods and findings | A-Quadratic equations | Parabolas and Marbles |
| | | Parabolas and Rectangles |
| | Ebook Year 9 | Linear Relationships |
| AC9M9A06 - experiment with the effects of the variation of parameters on graphs of related functions, using digital tools, making connections between graphical and algebraic representations, and generalising emerging patterns | Problem Solving & Reasoning Strand: Number & Algebra Sub-Strand: Equations and expressions Level 7 – 9 | Plot the parallel line |
| | | Points, gradients and perpendicular lines |
| | | Where will they meet? |
| | | Equation of a line parallel to another given one axis intercept |

| | Ebooks Year 11 | Graphs and Physical phenomena |
| --- | --- | --- |
| | | Straight lines and curves |
| | | Straight lines |

# 3 Measurement

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M9M01 - solve problems involving the volume and surface area of right prisms and cylinders using appropriate units | M-Volume & Surface Area | Surface Area: Rectangular Prisms |
| | | Surface Area: Triangular Prisms 1 |
| | | Surface Area: Triangular Prisms |
| | | Surface Area: Cylinders |
| | | Surface Area: Cones |
| | | Surface Area: Rectangular Pyramids |
| | | Volume: Cylinders |
| | | Volume: Pyramids |
| | | Volume: Cones |
| AC9M9M02 - solve problems involving very small and very large measurements, time scales and intervals expressed in scientific notation | M-Scientific Notation & Errors | Scientific Notation to Decimal |
| | | Scientific Notation |
| | | Scientific Notation 1 |
| | | Scientific Notation 2 |
| | | Ordering Scientific Notation |
| AC9M9M03 - solve spatial problems, applying angle properties, scale, similarity, Pythagoras' theorem and trigonometry in right-angled triangles | M - Pythagoras and Trigonometry | Scale Factor |
| | | Similar Areas and Volumes |
| | | Find Unknown Sides |
| | | Find Unknown Angles |
| | | Cone and Pyramid dimensions |
| AC9M9M04 - calculate and interpret absolute, relative and percentage errors in measurements, recognising that all measurements are estimates | M-Scientific Notation & Errors | Percentage Error |
| | | Error in Measurement |
| AC9M9M05 – use mathematical modelling to solve practical problems involving direct proportion, rates, ratio and scale, including financial contexts; formulate the problems and interpret solutions in terms of the situation; evaluate the model and report methods and findings | M-Rates & Ratio problems | Best Buy |
| | | Purchase Options |

# 4 Space

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M9SP01 - recognise the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles using properties of similarity | SP-Right-angled triangles | Hypotenuse, Adjacent, Opposite |
| | | Sin A |
| | | Cos A |
| | | Tan A |
| | | Exact Trigonometric Ratios |
| AC9M9SP02 - apply the enlargement transformation to shapes and objects using dynamic geometry software as appropriate; identify and explain aspects that remain the same and those that change | Y9 Quests: | Y9 Quest content: |
| | Similar triangles | Introducing similarity |
| | | Similar triangles |
| | Area & volume scale factors | Area & volume scale factors |
| | Problem Solving & Reasoning Strand: Geometry Sub-Strand: Symmetry, transformation & location Level 6 - 8 | Enlarging triangles |
| | | The business of logos |
| | Problem Solving & Reasoning Strand: Geometry Sub-Strand: Symmetry, transformation & location Level 9 - 11 | Dilation dilemma |
| AC9M9SP03 - design, test and refine algorithms involving a sequence of steps and decisions based on geometric constructions and theorems; discuss and evaluate refinements | Problem Solving & Reasoning Strand: Geometry Sub-Strand: Symmetry, transformation & location Level 7 – 9 | U move |

# 5 Statistics

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M9ST01 - analyse reports of surveys in digital media and elsewhere for information on how data was obtained to estimate population means and medians | Y9 Quests:<br>Make population predictions from data | Y9 Quest content:<br>Using data to make predictions about populations |
| | Problem Solving & Reasoning<br>Strand: Statistics & Data<br>Sub-Strand: x<br>Level 8 – 10 | Do energy drinks work? |
| AC9M9ST02 - analyse how different sampling methods can affect the results of surveys and how choice of representation can be used to support a particular point of view | Problem Solving & Reasoning<br>Strand: Statistics & Data<br>Sub-Strand: x<br>Level 9 - 11 | Number of bedrooms |
| | | Crabby measurements |
| | | Your privacy is showing |
| | Ebooks<br>Year 12 | Data Analysis – data collection and sampling |
| AC9M9ST03 - represent the distribution of multiple data sets for numerical variables using comparative representations; compare data distributions with consideration of centre, spread and shape, and the effect of outliers on these measures | | Frequency Histograms |
| | | Double Stem and Leaf Plots |
| | | Histograms for Grouped Data |
| | Y9 Quests: | Y9 Quest content: |
| | Construct & interpret data displays | Constructing & interpreting data displays |
| | Compare data displays | Comparing data displays |
| | Problem Solving & Reasoning<br>Strand: Statistics & Data<br>Level 5 - 7 | Box plot detectives |
| | | Show your cards |
| | | Lake Scaley fish |
| | | Goals per game |
| | Ebooks<br>Year 8 | Data for statistics |
| AC9M9ST04 - choose appropriate forms of display or visualisation for a given type of data; justify selections and interpret displays for a given context | Problem Solving & Reasoning<br>Strand: Statistics & Data<br>Level 7 – 9 | Angle of the sectors |
| | | Sporty sectors |
| | | Sector graph angles |
| | | A piece of the pie |
| | | Transferring visual data from pie to divided bar graph |
| AC9M9ST05 - plan and conduct statistical investigations involving the collection and analysis of | Y9 Quests:<br>Collect everyday data | Y9 Quest content:<br>Collecting everyday data |

| different kinds of data; report findings and discuss the strength of evidence to support any conclusions | 15 | |
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# 6 Probability

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M9P01 - list all outcomes for compound events both with and without replacement, using lists, tree diagrams, tables or arrays; assign probabilities to outcomes | ST-Statistical & Probability | Probability With Replacement |
| | | Probability Without Replacement |
| AC9M9P02 - calculate relative frequencies from given or collected data to estimate probabilities of events involving "and", inclusive "or" and exclusive "or" | Y9 Quests: Calculate & use relative frequency | Y9 Quest content: Calculating & using relative frequency |
| | Ebooks Year 9 | Probability |
| AC9M9P03 - design and conduct repeated chance experiments and simulations, using digital tools to compare probabilities of simple events to related compound events, and describe results | Teacher directed | |

# Year 10 – Skill Quests

## 1 Algebra

| Outcome | Quests | Content |
|---|---|---|
| AC9M10A01 - expand, factorise and simplify expressions and solve equations algebraically, applying exponent laws involving products, quotients and powers of variables, and the distributive property | Factorise algebraic expressions | Factorising algebraic expressions |
| | Exponent laws | Exponents: multiplication |
| | | Exponents: division |
| | | Exponents: power of a power |
| | | Exponents: zero index |
| | | Exponents: mixed operations with coefficient = 1 |
| | | Exponents: mixed operations with coefficient >1 |
| | | Exponents: negative index with numerical base |
| | | Exponents: negative, algebraic & numerical base |
| | | Exponents: mixed with negative indices |
| | Algebraic fractions | Algebraic fractions: 4 ops numerical denominators |
| | | Algebraic fractions: simplifying |
| | Binomial expansions & basic quadratics | Expanding binomial products |
| | | Binomial product special results |
| | | Factorising monic quadratic trinomials |
| | | Further binomial expansions |
| | Solve simple quadratic equations | Solving simple quadratic equations |
| AC9M10A02 - solve linear inequalities and simultaneous linear equations in 2 variables; interpret solutions graphically and communicate solutions in terms of the situation | Linear inequalities & their graphs | Understanding inequalities |
| | | Solving linear inequalities – 1-step |
| | | Solving linear inequalities – 2-step |
| | | Solving linear inequalities – 3-step |
| | Linear simultaneous equations | Simultaneous equations |
| AC9M10A03 - recognise the connection between algebraic and graphical representations of exponential relations and solve related exponential equations, using digital tools where appropriate | Representations of nonlinear relations | Representations of nonlinear relations |
| | Solve exponential equations | Solving exponential equations |
| AC9M10A04 - use mathematical modelling to solve applied problems involving growth and decay, | Compound & simple interest | Compound interest |
| | | Comparing simple & compound interest |

| | | |
|---|---|---|
| including financial contexts; | | Appreciation & depreciation |
| formulate problems, choosing to apply linear, quadratic or exponential models; interpret solutions in terms of the situation; evaluate and modify models as necessary and report assumptions, methods and findings | Problems involving linear equations | Solving word problems with linear equations |

## 2 Measurement

| Outcome | Quests | Content |
|---|---|---|
| AC9M10M01 - solve problems involving the surface area and volume of composite objects using appropriate units | Volume & surface area: composite solids | Volume of composite solids |
| | | Surface area of composite solids |
| AC9M10M03 - solve practical problems applying Pythagoras' theorem and trigonometry of right-angled triangles, including problems involving direction and angles of elevation and depression | Angles of elevation/depression, bearings | Angles of elevation & depression |
| | | Compass bearings |
| | | True bearings |

# 3 Space

| Outcome | Quests | Content |
|---|---|---|
| AC9M10SP01 - apply deductive reasoning to proofs involving shapes in the plane and use theorems to solve spatial problems | Solve problems using geometric reasoning | Solving problems using geometric reasoning |

# 4 Statistics

| Outcome | Quests | Content |
|---|---|---|
| AC9M10ST01 - analyse claims, inferences and conclusions of statistical reports in the media, including ethical considerations and identification of potential sources of bias | Evaluate statistical reports | Evaluating statistical reports |
| AC9M10ST02 - compare data distributions for continuous numerical variables using appropriate data displays including boxplots; discuss the shapes of these distributions in terms of centre, spread, shape and outliers in the context of the data | Compare data distributions | Interquartile range |
| | | Constructing & interpreting box plots |
| | | Comparing box plots |
| | | Comparing dot plots |
| | | Comparing bar graphs |
| AC9M10ST03 - construct scatterplots and comment on the association between the 2 numerical variables in terms of strength, direction and linearity | Scatter plots | Scatter plots |
| AC9M10ST04 - construct two-way tables and discuss possible relationship between categorical variables | Two-way tables | Two-way tables |
| AC9M10ST05 - plan and conduct statistical investigations of situations that involve bivariate data; evaluate and report findings with consideration of limitations of any inferences | Bivariate data | Bivariate data |

# 5 Probability

| Outcome | Quests | Content |
|---|---|---|
| AC9M10P01 - use the language of "if …. then", "given", "of", "knowing that" to describe and interpret situations involving conditional probability | Conditional probability | Conditional probability introduction |
| | | Conditional probability & two-way tables |
| | | Conditional probability & tree diagrams |
| | | Conditional probability & arrays |
| | | Conditional probability & Venn diagrams |
| | | Set theory & Venn diagrams |
| AC9M10P02 - design and conduct repeated chance experiments and simulations using digital tools to model conditional probability and interpret results | Three-step experiments | Three-step chance experiments with replacement |
| | | Three-step chance experiments without replacement |
| | | Independent events |

# Year 10 – Activities

## 1 Number

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M10N01 - recognise the effect of using approximations of real numbers in repeated calculations and compare the results when using exact representations | Teacher directed | |

# 2 Algebra

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M10A01 - expand, factorise and simplify expressions and solve equations algebraically, applying exponent laws involving products, quotients and powers of variables, and the distributive property | A-Algebraic expressions and fractions | Special Binomial Products |
| | | Grouping in Pairs |
| | | Exponent Laws and Algebra |
| | | Exponent Laws with Brackets |
| | | Multiplication and Division with Exponents |
| | | Algebraic Fractions 1 |
| | | Algebraic Fractions 2 |
| AC9M10A02 – solve linear inequalities and simultaneous linear equations in 2 variables; interpret solutions graphically and communicate solutions in terms of the situation | A-Inequalities and simultaneous equations | Solve One-Step Inequalities 1 |
| | | Solve One-Step Inequalities 2 |
| | | Solve Two-Step Inequalities |
| | | Solving Inequalities 1 |
| | | Solving Inequalities 2 |
| | | Linear Regions |
| | | Graphing Inequalities on a Number Line |
| | | Solve Systems by Graphing |
| | | Intersecting Linear Regions |
| | | Simultaneous Linear Equations |
| | | Simultaneous Equations 1 |
| | | Simultaneous Equations 2 |
| AC9M10A03 - recognise the connection between algebraic and graphical representations of exponential relations and solve related exponential equations, using digital tools where appropriate | A-Exponentials | Graphing Exponentials |
| | | Exponential Equations |
| | | Exponential Growth and Decay |
| | | Compound Interest |
| AC9M10A04 – use mathematical modelling to solve applied problems involving growth and decay, including financial contexts; formulate problems, choosing to apply linear, quadratic or exponential models; interpret solutions in terms of the situation; evaluate and modify models as necessary and report assumptions, methods and findings | A-Exponentials | Compound Interest by Formula |
| | | Successive Discounts |
| | | Depreciation |
| | | Comparing Loans |
| | | Comparing Home Loans |
| AC9M10A05 - experiment with functions and relations using digital tools, making and testing conjectures and generalising emerging patterns | Problem Solving & Reasoning Strand: Number and Algebra Sub-Strand: Equations & expressions Level 9-11 | Circle transformation |

# 3 Measurement

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M10M01 - solve problems involving the surface area and volume of composite objects using appropriate units | Y9 Quests: Volume & surface area: composite solids | Y9 Quest content: Volume of composite solids |
| | Problem Solving & Reasoning Strand: Measurement Sub-Strand: Volume & Capacity Level 6 - 8 | Volume of composite shapes |
| AC9M10M02 - interpret and use logarithmic scales in applied contexts involving small and large quantities and change | Ebooks Year 11 | Functions and Logarithms |
| | | Logarithms C Series |
| AC9M10M03 - solve practical problems applying Pythagoras' theorem and trigonometry of right-angled triangles, including problems involving direction and angles of elevation and depression | M-Pythagoras and Trigonometry | Bearings |
| | | Elevation and Depression |
| | | Trigonometry Problems 2 |
| | | Trigonometry Problems 1 |
| | | 3D Trigonometry |
| AC9M10M04 - identify the impact of measurement errors on the accuracy of results in practical contexts | Teacher directed | |
| AC9M10M05 – use mathematical modelling to solve practical problems involving proportion and scaling of objects; formulate problems and interpret solutions in terms of the situation; evaluate and modify models as necessary, and report assumptions, methods and findings | Teacher directed | |

# 4 Space

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M10SP01 - apply deductive reasoning to proofs involving shapes in the plane and use theorems to solve spatial problems | Y9 Quests:<br>Solve problems using geometric reasoning | Y9 Quest content:<br>Solving problems using geometric reasoning |
| AC9M10SP02 - interpret networks and network diagrams used to represent relationships in practical situations and describe connectedness | SP-Networks | Networks Introduction |
| | | Minimum Spanning Trees |
| AC9M10SP03 - design, test and refine solutions to spatial problems using algorithms and digital tools; communicate and justify solutions | Teacher directed | |

# 5 Statistics

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M10ST01 - analyse claims, inferences and conclusions of statistical reports in the media, including ethical considerations and identification of potential sources of bias | Y9 Quests: Evaluate statistical reports | Y9 Quest content: Evaluating statistical reports |
| AC9M10ST02 – compare data distributions for continuous numerical variables using appropriate data displays including boxplots; discuss the shapes of these distributions in terms of centre, spread, shape and outliers in the context of the data | ST-Statistical data | Calculating Interquartile Range |
| | | Box-and-Whisker Plots 1 |
| | | Box-and-Whisker Plots 2 |
| | | Skewness of Data |
| AC9M10ST03 – construct scatterplots and comment on the association between the 2 numerical variables in terms of strength, direction and linearity | ST-Statistical data | Correlation |
| AC9M10ST04 – construct two-way tables and discuss possible relationship between categorical variables | Y9 Quests: Two-way tables | Y9 Quest content: Two-way tables |
| | Problem Solving & Reasoning Strand: Chance & Probability Sub-Strand: x Level 6 - 8 | Compare the information |
| | Ebooks Year 10 | Probability |
| AC9M10ST05 - plan and conduct statistical investigations of situations that involve bivariate data; evaluate and report findings with consideration of limitations of any inferences | Y9 Quests: Bivariate data | Y9 Quest content: Bivariate data |

# 6 Probability

| Outcome | Topic | Activity Title |
|---|---|---|
| AC9M10P01 - use the language of "if …. then", "given", "of", "knowing that" to describe and interpret situations involving conditional probability | P-Probability | Conditional probability |
| | | Probability - 'And' and 'Or' |
| AC9M10P02 - design and conduct repeated chance experiments and simulations using digital tools to model conditional probability and interpret results | Three-step experiments | Three-step chance experiments with replacement |
| | | Three-step chance experiments without replacement |
| | | Independent events |

**Mathletics**

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