Mathletics Tasmania -Australian Curriculum v9 Activities (Courses) and Skill Quests







Year 9 – Skill Quests	3
1 Algebra	3
2 Measurement	4
3 Ѕрасе	6
4 Statistics	7
5 Probability	8
Year 9 – Activities	9
1 Number	9
2 Algebra	10
3 Measurement	12
4 Space	13
5 Statistics	14
6 Probability	16
Year 10 – Skill Quests	17
Year 10 – Skill Quests 1 Algebra	17 17
Year 10 – Skill Quests 1 Algebra 2 Measurement	17
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space	17
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics	17
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics 5 Probability	17
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics	17 17
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics	17 17
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics	17 17 19 20 21 21 23 23 23
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics	17 17 19 20 21 21 23 23 23 24 25
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics 5 Probability Year 10 – Activities 1 Number 2 Algebra 3 Measurement	17 17 19 20 21 21 22 23 23 23 23 24 25 26
Year 10 – Skill Quests 1 Algebra 2 Measurement 3 Space 4 Statistics 5 Probability Year 10 – Activities 1 Number 2 Algebra 3 Measurement 4 Space	17 17 19 20 21 21 22 23 23 23 24 25 26 27

Year 9 – Skill Quests

1 Algebra

Outcome	Quests	Content
AC9M9A01 - apply the exponent	Exponent laws with	Mixed exponent laws
laws to numerical expressions with	numerical expressions	numerical expressions
to variables		Exponent laws: positive &
to variables		Nived even on the level
	Exponent laws with	Mixed exponent laws
ACOMOA02 simplify algebraic	Apply the distributive	Applying the distributive law
expressions, expand binomial	law	
products and factorise	Binomial expansions &	Expanding binomial products
monic quadratic expressions	factorisations	Binomial product special results
		Factorising monic quadratic trinomials
		Further binomial expansions
AC9M9A03 - find the gradient of	Find the distance	Distance between two points
a line segment, the midpoint of	between two points	without the formula
the line interval and the distance		Distance between two points
between 2 distinct points on the Cartesian plane		using the formula
	Find the midpoint	Finding the midpoint without
	between two points	the formula
		Finding the midpoint using the formula
	Find the gradient	Finding the gradient without
	between two points	the formula
		Finding the gradient using the
		formula
AC9M9A04 - identify and graph quadratic functions, solve quadratic	Graph & solve quadratic relationships	Using table of values to graph quadratics
equations graphically and numerically, and solve		Solving simple nonlinear relationships
monic quadratic equations with		Understanding parabolas
integer roots algebraically, using	Solve simple quadratic	Solving simple quadratic
grapning software and digital tools as appropriate	equations	equations

2 Measurement

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

Patio & scales Patio & scales in real life		
	Ratio & scales	Ratio & scales in real life

3 Space

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

Statistics

Outcome	Quests	Content
AC9M9ST01 - analyse reports of surveys in digital media and	Make population predictions from data	Using data to make predictions about populations
how data was obtained to		
medians		
AC9M9ST03 - represent the	Construct & interpret	Constructing & interpreting
distribution of multiple data sets	data displays	data displays
for numerical variables using	Compare data displays	Comparing data displays
comparative representations;		
compare data distributions with		
consideration		
of centre, spread and shape, and		
the effect of outliers on these		
measures		
AC9M9ST05 - plan and	Collect everyday data	Collecting everyday data
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		

5 Probability

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

Year 9 – Activities

1 Number

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

2 Algebra

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

Measurement

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

4 Space

Outcome	Торіс	Activity Title
AC9M9SP01 - recognise the constancy of the sine, cosine and	SP-Right-angled triangles	Hypotenuse, Adjacent, Opposite
tangent ratios for a given angle in		Sin A
right-angled triangles using		Cos A
properties of similarity		Tan A
		Exact Trigonometric Ratios
AC9M9SP02 - apply the enlargement transformation to	Y9 Quests:	Y9 Quest content:
shapes and objects using dynamic	Similar triangles	Introducing similarity
geometry software as appropriate;		Similar triangles
identify and explain aspects that remain the same and those that	Area & volume scale factors	Area & volume scale factors
change	Problem Solving & Reasoning Strand: Geometry	Enlarging triangles
	Sub-Strand: Symmetry, transformation & location Level 6 - 8	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

Statistics

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

different kinds of data; report	
findings and discuss the strength of	
evidence to support any	
conclusions	

6 Probability

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

Year 10 – Skill Quests

1 Algebra

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

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

2 Measurement

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

3 Space

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

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	Compare data	Interquartile range
distributions for continuous numerical variables using	distributions	Constructing & interpreting box plots
appropriate data displays including		Comparing box plots
boxplots; discuss the shapes of		Comparing dot plots
these distributions in terms of		Comparing bar graphs
centre, spread, shape and outliers		
	Scatter plats	Scatter plots
construct scatterplots and comment	Scutter plots	Scutter plots
on the association between the		
2 numerical variables in terms of		
strength, direction and linearity		
AC9M10ST04 - construct two-way	Two-way tables	Two-way tables
tables and discuss possible		
relationship between categorical		
variables		
AC9M10ST05 - plan and	Bivariate data	Bivariate data
conduct statistical investigations of		
situations that involve bivariate		
data; evaluate and report		
findings with consideration of		
limitations of any inferences		

5 Probability

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

Year 10 – Activities

1 Number

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

2 Algebra

Outcome	Торіс	Activity Title
AC9M10A01 - expand, factorise	A-Algebraic	Special Binomial Products
and simplify expressions and solve	expressions and	Grouping in Pairs
equations algebraically, applying	fractions	Exponent Laws and Algebra
exponent laws involving products,		Exponent Laws with Brackets
quotients and powers of variables,		Multiplication and Division
and the distributive property		with Exponents
		Algebraic Fractions 1
		Algebraic Fractions 2
AC9M10A02 – solve linear	A-Inequalities and	Solve One-Step Inequalities 1
inequalities and simultaneous linear	simultaneous	Solve One-Step Inequalities 2
equations in 2 variables; interpret	equations	Solve Two-Step Inequalities
solutions graphically and		Solving Inequalities 1
communicate solutions in terms of		Solving Inequalities 2
the situation		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	A-Exponentials	Graphing Exponentials
connection between algebraic and		Exponential Equations
graphical representations of		Exponential Growth and
exponential relations and solve		Decay
related exponential equations,		Compound Interest
using digital tools where		
ACOM10A04 use methematical	A Exponentiale	Compound Interact by
AC9M10A04 – Use mathematical	A-Exponentials	Compound interest by
involving crowth and decay		Formula
including financial contexts:		
formulate problems, choosing to		
apply linear auadratic or		Successive Discounts
exponential models: interpret		Depreciation
solutions in terms of the situation;		Comparing Logns
evaluate and modify models as		Comparing Home Logns
necessary and report assumptions,		Companing Home Loans
methods and findings		
AC9M10A05 - experiment with	Problem Solving &	Circle transformation
functions and relations using digital	Reasoning	
tools, making and testing	Strand: Number and	
conjectures and generalising	Algebra	
emerging patterns	Sub-Strand: Equations	
	& expressions	
	Level 9-11	

3 Measurement

Outcome	Торіс	Activity Title
AC9M10M01 - solve problems	Y9 Quests:	Y9 Quest content:
involving the surface area and	Volume & surface area:	Volume of composite solids
volume of composite objects using	composite solids	
appropriate units	Problem Solving &	Volume of composite shapes
	Reasoning	
	Sub-Strand: Volume &	
	Capacity	
	Level 6 - 8	
AC9M10M02 - interpret and use	Ebooks	Functions and Logarithms
logarithmic scales in applied	Year 11	
contexts involving small and		Logarithms C Series
large quantities and change		
AC9M10M03 - solve practical	M-Pythagoras and	Bearings
problems applying Pythagoras	Trigonometry	Elevation and Depression
theorem and trigonometry of right-		Trigonometry Problems 2
problems involving direction and		Trigonometry Problems 1
angles of elevation and depression		3D Trigonometry
AC9M10M04 - identify the impact	Teacher directed	
of measurement errors on the		
accuracy of results in practical		
contexts		
AC9M10M05 – use mathematical	Teacher directed	
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		
findings		
inuings		

4 Space

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

Statistics

Outcome	Торіс	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	Y9 Quests:	Y9 Quest content:
tables and discuss possible relationship between categorical variables	I wo-way tables Problem Solving & Reasoning Strand: Chance & Probability Sub-Strand: x Level 6 - 8	I wo-way tables 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	Торіс	Activity Title
AC9M10P01 - use the language of	P-Probability	Conditional probability
"if then", "given", "of", "knowing		Probability - 'And' and 'Or'
that" to describe and interpret		
situations involving conditional		
probability		
AC9M10P02 - design and	Three-step	Three-step chance
conduct repeated chance	experiments	experiments with replacement
experiments and simulations using		Three-step chance
digital tools to model conditional		experiments without
probability and interpret results		replacement
		Independent events



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