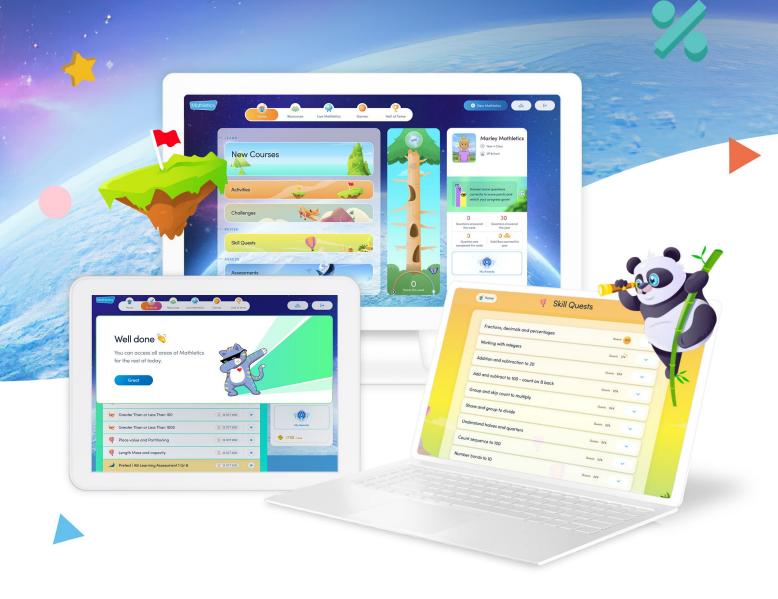
Mathletics Western Australia - Australian Curriculum v8.4

Skill Quests



Years 1 - 2

June, 2022



Year 1	
1 Number and Algebra	
2 Measurement	
3 Statistics and Probability	
Year 2	
1 Number and Algebra	
2 Measurement and Geometry	
3 Statistics and Probability	

Year 1

1 Number and Algebra

Outcome	Quests	Content
Develop confidence with number	Whole number –	Count forwards and
sequences to and from 100 by ones from any starting point. Skip count	counting	backwards to 100
		Find numbers before and after
by twos, fives and tens starting		to 100
from zero		Identify ordinal numbers up to
	M/hala numbar akin	Skin count by 2c
	Whole number - skip counting	Skip count by 2s
	Counting	Skip count by 5s Skip count by 10s
		Skip count by 2s, 5s and 10s
Count collections to 100 by	Whole number -	Count collections 0 to 100
partitioning numbers using place	counting collections	Use groups of 10 to count
value		large collections
		Identify place value up to 2
		digits
		Solve problems using place
		value up to 2 digits
		Partition 2-digit numbers
		(standard)
		Partition 2-digit numbers
		(non-standard)
Recognise, model, read, write and	Whole number – place	Model, read, write and count
order numbers to at least 100; locate these numbers on a number	value	2-digit numbers Compare and order numbers
line		to 100
		Round numbers up to 100
		Solve problems with 2-digit
		numbers on number lines
Recognise, describe and order	Whole number –	Recognise Australian coins
Australian coins according to their	money	
value		
Represent and solve simple	Addition and	Model and record
addition and subtraction problems	subtraction	combinations that make 5 – 9
using a range of strategies,		Model and record
including counting on, partitioning and rearranging parts		combinations that make 11 – 20
and rearranging parts		Recognise and recall bonds to
		10
		Add zero to a number (up to
		20)
		Introduce the commutative
		property of addition
		Add and subtract by counting
		on/back up to 100

		Add doubles up to 20
		Add and subtract near
		doubles
		Find the difference between 2
		numbers (to 20)
		Add compatible numbers
		(doubles or bonds to 10)
		Add and subtract using
		bridging to 10 up to 100
		Add using place value up to
		100
		Solve addition and subtraction
		word problems
		Explore equality and inequality
		up to 10 and 20
Recognise and describe one-half as	Fractions and decimals	Find half of a set or quantity
one of two equal parts of a whole		(no symbols)
		Find half of a set or quantity
		(symbols)
Investigate and describe number	Patterns and algebra	Explore repeating numeric
patterns formed by skip counting		patterns
and patterns with objects		Explore repeating patterns
		with objects
		Relate number and object
		patterns
		Explore number patterns (1, 2,
		5, 10)
		Additive and subtractive
		patterns (within 5)
		Odd and even number
		patterns (up to 20)

2 Measurement

Outcome	Quests	Content
Measure and compare the lengths and capacities of pairs of objects using uniform informal units	Length	Explore informal units of length and distance
	Volume and capacity	Explore volume and capacity using informal units
		Measure volume and capacity (informal units)
Tell time to the half-hour	Time – telling the time	Tell time to the hour and half hour (analogue)
		Tell time to the hour and half hour (digital)
Describe duration using months, weeks, days and hours	Time - describe duration	Describing duration (hours)
Recognise and classify familiar two-dimensional shapes and three-	Two-dimensional shapes	Sort quadrilaterals from other 2D shapes
dimensional objects using obvious features		Identify, sort and name octagons
		Identify, sort and name pentagons
		Identify, sort and name hexagons
		Identify and name simple 2D shapes
		Compare, describe and sort simple 2D shapes
		Identify vertical and horizontal lines
		Identify parallel lines
	Three-dimensional	Explore surfaces and faces
	objects	Recognise and describe spheres
		Recognise and describe cones
		Recognise and describe cubes
		Recognise and describe cylinders
		Recognise, sort and name 3D objects
		Recognise and describe
		prisms (no formal names)
Give and follow directions to	Position	Position using left, right and
familiar locations		ordinal numbers

3 Statistics and Probability

Outcome	Quests	Content
Identify outcomes of familiar events	Chance	Use the everyday language of
involving chance and describe them		chance
using everyday language, such as		
'will happen', 'won't happen' or		
'might happen'		
Choose simple questions and	Gathering data	Ask suitable questions for
gather responses and make simple		data collection
inferences		Complete tally charts
Represent data with objects and	Representing data	Represent data in a simple
drawings where one object or		display
drawing represents one data value		Read simple data displays
and describe the displays		using objects

Year 2

1 Number and Algebra

Outcome	Quests	Content
Investigate number sequences,	Whole number –	Count in ones up to 1000
initially those increasing and	counting	Identify numbers before and
decreasing by twos, threes, fives		after up to 1000
and tens from any starting point,	Whole number –	2.
then moving to other sequences	sequences	number sequences Count in tens with 2- and
		3-digit numbers
		Find numbers 10 before and
		10 after up to 1000
Recognise, model, represent and	Whole number – place	Read and represent 3-digit
order numbers to at least 1000	value	numbers
		Compare and order numbers
		to 1000
Group, partition and rearrange	Whole number –	Identify place value in 3-digit
collections of up to 1000 in	partition and group	numbers
hundreds, tens and ones to		Count in hundreds, tens and
facilitate more efficient counting		ones Partition 3-digit numbers
		(standard)
		Partition 3-digit numbers
		(non-standard)
		Round numbers up to 1000 to
		the nearest 100
Count and order small	Whole number –	Count and order Australian
collections of Australian	money	notes and coins
coins and notes		
according to their value Explore the connection between	Addition and	Find fact families for addition
addition and subtraction	subtraction relationship	and subtraction
Solve simple addition and	Addition and	Use mental strategies to add
subtraction problems using a range	subtraction strategies	and subtract (to 100)
of efficient mental and written		Add and subtract tens from a
strategies		2-digit number
		Introduce place value to add
		and subtract (to 200)
		Use place value to add and
		subtract (to 200)
		Use place value (no models) to add and subtract
		Use place value to add
		(crossing a 10)
		Subtract using addition
		Solve word problems with
		start or change unknown
		Add and subtract using
		rounding and compensating

Recognise and represent multiplication as repeated addition, groups and arrays	Mult/div – models, repeated addition	Use repeated addition to multiply Explore arrays (no x symbol) Use the commutative property of multiplication
Represent division as grouping into equal sets and solve simple problems using these representations	Mult-div – equal groups	Divide by sharing and grouping Use repeated subtraction to divide Solve simple multiplication problems (2,5,10x)
Recognise and interpret common uses of halves, quarters and eighths of shapes and collections	Fractions and decimals	Explore the meaning of fraction symbols Find quarters of sets or shapes (no symbols) Find quarters of sets or shapes (symbols) Find halves and quarters (no symbols) Find halves and quarters (symbols) Find eighths of objects or shapes Find halves, quarters and eighths of shapes
Describe patterns with numbers and identify missing elements	Patterns	Number patterns (1, 2, 5, 10, 25 up to 100) Add or subtract patterns (within 10) up to 100
Solve problems by using number sentences for addition or subtraction	Patterns and algebra	Write simple number sentences

2 Measurement and Geometry

Outcome	Quests	Content
Compare and order several shapes	Length	Compare and order lengths
and objects based on length, area,		using informal units
volume and capacity using	Area	Compare and order areas
appropriate uniform informal units		(informal units)
		Measure and estimate area
	Malaura a sur di a sur surita i	using square units
	Volume and capacity	Compare and order volume using blocks
		Compare and order volume
		using displacement
Compare the masses of objects	Mass	Compare and order mass
using balance scales	Muss	using informal units
Tell time to the quarter-hour using	Time - telling the time	Tell time to the half and
the language of 'past' and 'to'		quarter hour
Name and order months and	Time – months and	Months of the year
seasons	seasons	Know the seasons
Use a calendar to identify the date	Time - using a calendar	Use a calendar to identify the
and determine the number of days		date
in each month		Use calendars to solve simple
		problems
Describe and draw two-	Two-dimensional	Represent and describe
dimensional shapes, with and	shapes	regular polygons
without the use of digital		
technologies Describe the features of three-	Three-dimensional	C
		Compare 2D shapes and 3D
dimensional objects	objects	objects Identify faces, edges and
		vertices on 3D objects
		Faces, edges, vertices and
		surfaces of 3D objects
Investigate the effect of one-step	Translations of shapes	Translations of shapes (slides,
slides and flips, with and without	!	flips, turns)
the use of digital technologies		·
Identify and describe half-turns and	Turns of shapes	Turns of shapes
quarter-turns		
Interpret simple maps of familiar	Reading maps	Read simple maps
locations and identify the relative		
positions of key features		

3 Statistics and Probability

Outcome	Quests	Content
Identify practical activities and	Chance	Use basic probability
everyday events that involve		language
chance. Describe outcomes as		
'likely' or 'unlikely' and identify		
some events as 'certain' or		
'impossible'		
Identify a question of interest based	Gathering data	Answer questions related to
on one categorical variable and		simple data displays
gather data relevant to the		
question		
Create displays of data using lists,	Creating displays of	Read and interpret simple
tables and picture graphs and	data	picture graphs
interpret them		Represent and read data in
		tables or lists
		Use a tally chart, table, picture
		graph



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