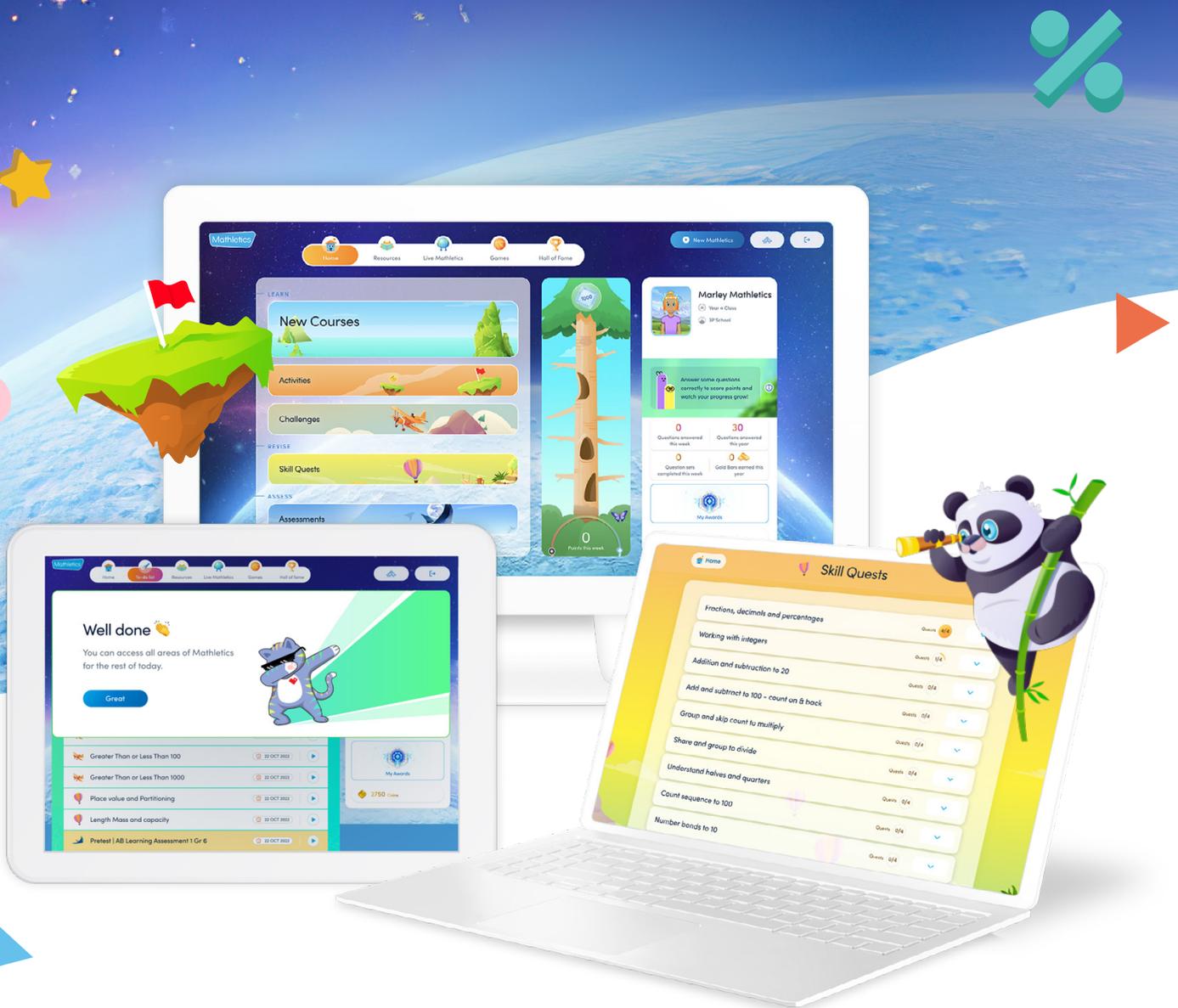


Mathletics

New South Wales Curriculum

Activities (Courses) and Skill Quests



Stage 1, Years 1-2

April 2024



Year 1	3
Number and Algebra.....	3
Representing Whole Numbers (A)	3
Combine and separate quantities (A)	4
Forming groups (A)	5
Measurement and space.....	6
Geometric measure (A) (Position)	6
Geometric measure (A) (Length)	6
Two-dimensional spatial structure (A)	6
3D spatial structure (A) (3D objects)	7
3D spatial structure (A) (Volume)	7
Non-spatial measure (A) (Mass)	8
Non-spatial measure (A) (Time).....	8
Statistics and Probability	9
Data (A)	9
Chance (A).....	9
Year 2	10
Number and Algebra.....	10
Representing whole numbers (B)	10
Combine and separate quantities (B)	11
Forming groups (B).....	11
Measurement and Space	13
Geometric measure (B) (Length)	13
Geometric measure (B) (Position)	13
Two-dimensional spatial structure (B)	13
3D spatial structure (B) (3D objects)	14
3D spatial structure (B) (Volume)	14
Non-spatial measure B (Mass)	15
Non-spatial measure B (Time)	15
Statistics and Probability	16
Data (B)	16
Chance (B)	16

Year 1

Number and Algebra

Representing Whole Numbers (A)

MA1-RWN-01	
Applies an understanding of place value and the role of zero to read, write and order two- and three-digit numbers	
Skill Quests	Skills
Count by ones to 100	Counting forwards & backwards to 100
	Numbers before & after to 100
	Counting collections 0 to 100
Count by ones to 200	Finding numbers on number line to 200
Identify ordinal numbers	Identifying ordinal numbers up to 31 st
Number patterns	Odd & even number patterns to 100
	Counting by 2s to 50
	Counting by 2s to 100
Compare & order numbers	Comparing & ordering numbers to 100
Course Topic	Activities Title
Match, name, arrange & order numbers	Concept of Zero
	Matching Numbers to 10
	Matching Numbers to 20
	Arranging Numbers
	Number Lines
	Going Up
	Going Down
	Before, After and Between to 20
	Before, After & Between to 100
	Ordinal Numbers
	Odd or Even
	Which is Bigger?
	Which is Smaller?

MA1-RWN-02	
Reasons about representations of whole numbers to 1000, partitioning numbers to use and record quantity values	
Skill Quests	Skills
Count collections by 10	Counting collections by 10
Place value of 2-digit numbers	Identifying place value up to 2 digits
	Solving problems using place value up to 2 digits
	Model, read, write & count 2-digit numbers
Partition 2-digit numbers	Partitioning 2-digit numbers
	Partitioning 2-digit numbers (non-standard)
Round to nearest 10	Rounding to the nearest 10

Course Topic	Activities Title
Place value to tens & teens	Making Teen Numbers
	Making Numbers Count
	Making Big Numbers Count
	Place Value 1
	Repertition Two-digit Numbers
	1 More, 2 Less
	Model Numbers

Combine and separate quantities (A)

MA1-CSQ-01	
Uses number bonds and the relationship between addition and subtraction to solve problems involving partitioning	
Skill Quests	Skills
Count by one to add & subtract	Finding the difference between 2 numbers (to 20)
	Counting on & back to 20
	Counting on & back to 100
	Recording & solving number sentences to 20
Addition & subtraction to 10	Modelling & recording combinations that make 5 – 9
	Recognising & recalling bonds to 10
Use strategies to add & subtract	Doubles to 20
	Adding zero to a number (up to 20)
	Add & subtract near doubles or doubles
	Adding compatible numbers (doubles or bonds to 10)
	Add & subtract using bridging to 10 up to 100
Explore equality & inequality to 20	Exploring equality & inequality to 10
	Exploring equality & inequality to 20
	Finding fact families for addition & subtraction
	Introducing the commutative property of addition
Course Topic	Activities Title
Addition & subtraction within 10	Model Addition
	Adding to Make 5 and 10
	Adding to 5
	Adding to Ten
	All about Ten
	Addition Facts
	Balance Numbers to 10
	Model Subtraction
	Subtracting From 5
	Subtracting from Ten
	Adding to 10 Word Problems
	Doubles and Halves to 10
	More, Less or the Same to 10

Forming groups (A)

MA1-FG-01	
Uses the structure of equal groups to solve multiplication problems, and shares or groups to solve division problems	
Skill Quests	Skills
Count in multiples of 2, 3, 5, 10	Skip count by 2s
	Skip count by 3s
	Skip count by 5s
	Skip count by 10s
	Skip count by 2s, 5s & 10s
Use equal grouping to multiply	Using groups & skip counting to solve problems
	Using "groups of" to represent multiplication
	Exploring "groups of" in arrays (no x symbol)
Recognise & represent division	Sharing objects to divide
	Grouping objects to divide
Explore halves	Finding half of a set or quantity (no symbols)
	Finding half of a set or quantity (symbols)
Explore leftovers	Fair shares with/without remainders
Course Topic	Activities Title
Grouping & sharing patterns	Counting by Twos
	Counting by Fives
	Counting by Tens
	Share the Treasure
	Groups
	Fill the Jars
	Grouping in Twos
	Grouping in Fives
	Grouping in Tens
	Count by 2s, 5s and 10s
	Counting on a 100 grid
	Grouping in Threes
	Grouping in Fours
	Divide Into Equal Groups

Measurement and space

Geometric measure (A) (Position)

MA1-GM-01	
Represents and describes the positions of objects in familiar locations	
Skill Quests	Skills
Position & direction	Position using left & right
	Following directions
	Describing a path
Course Topic	Activities Title
Position	Where is it?

Geometric measure (A) (Length)

MA1-GM-02	
Measures, records, compares and estimates lengths and distances using uniform informal units, as well as metres and centimetres	
Skill Quests	Skills
Length using informal units	Measuring with informal units
	Comparing & ordering lengths using informal units
Course Topic	Activities Title
Informal & formal length	Measuring Length

MA1-GM-03	
Creates and recognises halves, quarters and eighths as part measures of a whole length	
Skill Quests	Skills
Subdivision to find halves & quarters	Finding halves & quarters
Course Topic	Activities Title
Teacher directed	

Two-dimensional spatial structure (A)

MA1-2DS-01	
Recognises, describes and represents shapes including quadrilaterals and other common polygons	
Skill Quests	Skills
Two-dimensional shapes	Regular & irregular triangles
	Sorting quadrilaterals from other 2D shapes
	Identifying, sorting & naming octagons
	Identifying, sorting & naming pentagons
	Identifying, sorting & naming hexagons
	Identifying & naming simple 2D shapes
	Comparing, describing & sorting simple 2D shapes
	Representing & describing regular polygons
Slides, flips & reflections	Patterns with shapes
	Translations of shapes
	Recognising line symmetry

Course Topic	Activities Title
Quadrilaterals & polygons	Simple Patterns
	Complete the Pattern
	Flip, Slide, Turn
	Shapes
	Symmetry
	Area of Shapes

MA1-2DS-02	
Measures and compares areas using uniform informal units in rows and columns	
Skill Quests	Skills
Area	Comparing & measuring area using informal units
Course Topic	Activities Title
Quadrilaterals & polygons	Simple Patterns
	Complete the Pattern
	Flip, Slide, Turn
	Shapes
	Symmetry
	Area of Shapes

3D spatial structure (A) (3D objects)

MA1-3DS-01	
Recognises, describes and represents familiar three-dimensional objects	
Skill Quests	Skills
Recognise three-dimensional objects	Recognising & describing spheres
	Recognising & describing cubes
	Recognising & describing cylinders
	Recognising & describing prisms (no formal names)
Explore three-dimensional objects	Exploring surfaces & faces
Course Topic	Activities Title
Teacher directed	

3D spatial structure (A) (Volume)

MA1-3DS-02	
Measures, records, compares and estimates internal volumes (capacities) and volumes using uniform informal units	
Skill Quests	Skills
Volume & capacity	Exploring volume & capacity using informal units
	Measuring volume & capacity (informal units)
	Compare & order volume/capacity (informal units)
Course Topic	Activities Title
Volume	How many blocks?
	Comparing Volume
	How Full?
	Which Holds More?
	Filling Fast!

Non-spatial measure (A) (Mass)

MA1-NSM-01	
Measures, records, compares and estimates the masses of objects using uniform informal units	
Skill Quests	Skills
Mass	Investigating mass with equal-arm balance
Course Topic	Activities Title
Mass	Balancing Act
	Everyday Mass

Non-spatial measure (A) (Time)

MA1-NSM-02	
Describes, compares and orders durations of events, and reads half- and quarter-hour time	
Skill Quests	Skills
Time – calendars	Months of the year
	Know the seasons
	Using a calendar to identify the date
Tell the time - half hours	Telling time to the hour & half hour (analogue)
	Telling time to the hour & half hour (digital)
Course Topic	Activities Title
Duration	Months of the Year
	Months After and Before
	Using a Calendar
	Seasons (AU/NZ)
	Hour Times
	Half Hour Times
	Tell Time to the Hour (UK)
	Tell Time to the Half Hour (UK)
Quarter To and Quarter Past	

Statistics and Probability

Data (A)

MA1-DATA-01	
Gathers and organises data, displays data in lists, tables and picture graphs	
Skill Quests	Skills
Ask questions to gather data	Asking suitable questions for data collection
Track gathered data	Completing tally charts
Course Topic	Activities Title
Gather, organise & interpret data	Tallies
	Read Graphs
	Picture Graphs: Who has the Goods?
	Making Picture Graphs: With Scale
	Picture Graphs: More or Less
	Picture Graphs: Single-Unit Scale

MA1-DATA-02	
Reasons about representations of data to describe and interpret the results	
Skill Quests	Skills
Represent data	Representing data in a simple display
	Ordering category data
Describe data displays	Reading simple data displays using objects
	Answer questions related to simple data displays
	Reading & interpreting simple picture graphs
Course Topic	Activities Title
Gather, organise & interpret data	Tallies
	Read Graphs
	Picture Graphs: Who has the Goods?
	Making Picture Graphs: With Scale
	Picture Graphs: More or Less
	Picture Graphs: Single-Unit Scale

Chance (A)

MA1-CHAN-01	
Recognises and describes the element of chance in everyday events	
Skill Quests	Skills
Chance - possible outcomes	Using the everyday language of chance
Course Topic	Activities Title
Probability	Will it Happen?
	Most Likely and Least Likely

Year 2

Number and Algebra

Representing whole numbers (B)

MA1-RWN-01	
Applies an understanding of place value and the role of zero to read, write and order two- and three-digit numbers	
Skill Quests	Skills
Read & write 3-digit numbers	Reading & representing 3-digit numbers
Place value of 3-digit numbers	Identifying digit values in 3-digit numbers
Compare & order numbers to 1000	Comparing & ordering numbers to 1000
Whole numbers to 1000 counting in ones	Counting in ones to 1000
	Identifying numbers before & after up to 1000
Course Topic	Activities Title
Ones, tens & hundreds	Count by Tens
	Nearest 10?
	Nearest 100?
	Place Value 2
	Partition and Rename 1
	Place Value Partitioning
	Smallest and largest numbers

MA1-RWN-02	
Reasons about representations of whole numbers to 1000, partitioning numbers to use and record quantity values	
Skill Quests	Skills
Count in tens to 1000	Counting in tens with 2- & 3-digit numbers
	Finding numbers 10 before & 10 after up to 1000
Count in 100s, 10s & 1s	Counting in hundreds, tens & ones
Partition 3-digit numbers	Partitioning 3-digit numbers
	Partitioning 3-digit numbers (non-standard)
Round to the nearest 100	Rounding numbers up to 1000 to the nearest 100
Whole number – money	Counting & ordering Australian notes & coins
Course Topic	Activities Title
Ones, tens & hundreds	Count by Tens
	Nearest 10?
	Nearest 100?
	Place Value 2
	Partition and Rename 1
	Place Value Partitioning
	Smallest and largest numbers
	1 More, 10 Less

Combine and separate quantities (B)

MA1-CSQ-01	
Uses number bonds and the relationship between addition and subtraction to solve problems involving partitioning	
Skill Quests	Skills
Additive relations	Model & record combinations that make 11 – 20
	Finding fact families for addition & subtraction
	Commutative property for addition
Add & subtract 2-digit numbers	Using the bar model within 20
	Adding 2-digit & 1-digit numbers
	Using mental strategies to add & subtract (to 100)
	Adding & subtracting tens from a 2-digit number
	Introducing place value to add & subtract (to 200)
	Using place value to add & subtract (to 200)
	Using place value (no models) to add & subtract
	Using place value to add (crossing a 10)
	Subtracting using addition
	Solving word problems with start or change unknown
Use equality to solve problems	Determining a missing number
	Recognising equality to 18
Course Topic	Activities Title
Moving on with addition & subtraction	All about Twenty
	Related Facts 1
	Balance Numbers to 20
	Adding In Any Order
	Additive Addition
	Subtraction Facts to 18
	Subtract Tens
	10 More, 10 Less
	Doubles and Halves to 20
	Fact Families: Add and Subtract
	Add and Subtract Problems
	More, Less or the Same to 20

Forming groups (B)

MA1-FG-01	
Uses the structure of equal groups to solve multiplication problems, and shares or groups to solve division problems	
Skill Quests	Skills
Multiplication as equal groups	Adding to multiply
	Using the commutative property of multiplication
Halves, quarters & eighths	Exploring the meaning of fraction symbols
	Finding quarters of sets or shapes (no symbols)
	Finding quarters of sets or shapes (symbols)
	Finding halves & quarters (no symbols)
	Finding halves & quarters (symbols)
	Finding eighths of objects or shapes
Explore leftovers	Finding halves, quarters & eighths of shapes
	Fair shares with/without remainders
	Dividing by sharing & grouping

Multiply & divide using equal groups	Using repeated subtraction to divide
	Solving simple multiplication problems (2, 5, 10x)
Course Topic	Activities Title
Model multiplication to 5×5	Model multiplication to 5×5
Multiplication Arrays	Multiplication Arrays
Arrays 1	Arrays 1
Multiplication Turnarounds	Multiplication Turnarounds
Dividing Twos	Dividing Twos
Dividing Fives	Dividing Fives
Dividing Tens	Dividing Tens
Dividing Threes	Dividing Threes
Dividing Fours	Dividing Fours

Measurement and Space

Geometric measure (B) (Length)

MA1-GM-02	
Measures, records, compares and estimates lengths and distances using uniform informal units, as well as metres and centimetres	
Skill Quests	Skills
Compare lengths - informal units	Comparing & ordering lengths using informal units
Measure using formal units	Introducing formal units for length (m)
	Measuring using formal units for length (cm)
Course Topic	Activities Title
Informal & formal length	Measuring Length

MA1-GM-03	
Creates and recognises halves, quarters and eighths as part measures of a whole length	
Skill Quests	Skills
Halves, quarters & eighths	Relating eighths to repeated halving
Course Topic	Activities Title
Teacher directed	

Geometric measure (B) (Position)

MA1-GM-01	
Represents and describes the positions of objects in familiar locations	
Skill Quests	Skills
Position with maps	Reading simple maps
	Following a path
Course Topic	Activities Title
Teacher directed	

Two-dimensional spatial structure (B)

MA1-2DS-01	
Recognises, describes and represents shapes including quadrilaterals and other common polygons	
Skill Quests	Skills
Two-dimensional shapes	Sorting quadrilaterals from other 2D shapes
	Identifying & naming simple 2D shapes
	Comparing, describing & sorting simple 2D shapes
	Representing & describing regular polygons
Slides, flips & turns	Slides, flips & turns
Symmetry	Recognising line symmetry
Course Topic	Activities Title
Quadrilaterals & polygons	Simple Patterns
	Complete the Pattern
	Flip, Slide, Turn

	Shapes
	Symmetry
	Area of Shapes

MA1-2DS-02	
Measures and compares areas using uniform informal units in rows and columns	
Skill Quests	Skills
Measure area	Measuring & estimating area using square units
Course Topic	Activities Title
Quadrilaterals & polygons	Simple Patterns
	Complete the Pattern
	Flip, Slide, Turn
	Shapes
	Symmetry
	Area of Shapes

3D spatial structure (B) (3D objects)

MA1-3DS-01	
Recognises, describes and represents familiar three-dimensional objects	
Skill Quests	Skills
3D objects	Comparing 2D shapes & 3D objects
	Identifying faces, edges & vertices on 3D objects
	Describing & sorting 3D objects
Course Topic	Activities Title
Faces, edges & vertices	How many Edges?
	How many Vertices?
	Faces, Edges and Vertices
	Faces, Edges, and Vertices 1

3D spatial structure (B) (Volume)

MA1-3DS-02	
Measures, records, compares and estimates internal volumes (capacities) and volumes using uniform informal units	
Skill Quests	Skills
Measure volume & capacity	Measuring volume & capacity (informal units)
Compare & order volume & capacity	Compare & order volume/capacity (informal units)
	Comparing & ordering volume using blocks
	Comparing & ordering volume using displacement
Course Topic	Activities Title
Volume	How many Blocks?
	Comparing Volume
	How Full?
	Which Holds More?
	Filling Fast!

Non-spatial measure B (Mass)

MA1-NSM-01	
Measures, records, compares and estimates the masses of objects using uniform informal units	
Skill Quests	Skills
Compare & order mass	Comparing & ordering mass using informal units
Course Topic	Activities Title
Teacher directed	

Non-spatial measure B (Time)

MA1-NSM-02	
Describes, compares and orders durations of events, and reads half- and quarter-hour time	
Skill Quests	Skills
Time – calendars	Using calendars to solve simple problems
Time – formal units	Choosing appropriate units of time
	Using hours to measure time
	Using minutes to measure time
	Using seconds to measure time
	Comparing hours, minutes & seconds
Tell the time - review hour & half hour	Telling time to the hour & half hour (analogue)
	Telling time to the hour & half hour (digital)
Tell time - half & quarter hours	Telling time to the half & quarter hour
Course Topic	Activities Title
Duration	Months of the Year
	Months After and Before
	Using a Calendar
	Seasons (AU/NZ)
	Hour Times
	Half Hour Times
	Tell Time to the Hour (UK)
	Tell Time to the Half Hour (UK)
Quarter To and Quarter Past	

Statistics and Probability

Data (B)

MA1-DATA-01	
Gathers and organises data, displays data in lists, tables and picture graphs	
Skill Quests	Skills
Use tables & lists	Representing & reading data in tables or lists
Course Topic	Activities Title
Gather, organise & interpret data	Tallies
	Read Graphs
	Picture Graphs: Who has the Goods?
	Making Picture Graphs: With Scale
	Picture Graphs: More or Less
	Picture Graphs: Single-Unit Scale

MA1-DATA-02	
Reasons about representations of data to describe and interpret the results	
Skill Quests	Skills
Create & interpret data displays	Using a tally chart, table or picture graph
	Reading & interpreting simple picture graphs
Course Topic	Activities Title
Gather, organise & interpret data	Tallies
	Read Graphs
	Picture Graphs: Who has the Goods?
	Making Picture Graphs: With Scale
	Picture Graphs: More or Less
	Picture Graphs: Single-Unit Scale

Chance (B)

MA1-CHAN-01	
Recognises and describes the element of chance in everyday events	
Skill Quests	Skills
Chance - basic language	Using basic probability language
Course Topic	Activities Title
Probability	Will it Happen?
	Most Likely and Least Likely



For more information about Mathletics,
contact our friendly team.

www.mathletics.com/contact

