

Mathletics

South Africa National Curriculum Skill Quests



Grades 1-2

February 2023

Mathletics

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South Africa Program of Studies

Skill Quests

February 2023

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Grade 1

1 Numbers, Operations and Relationships

Topic	Quests	Content
Count objects	Count objects	Counting objects up to 100
Count forwards and backwards	Count forwards & backwards	Counting up & back in 1s
		Counting up & back in 2s
		Counting up & back in 5s
		Counting up & back in 10s to 50
		Counting up & back in 10s to 100
		Counting in 2s, 5s & 10s up to 100
Number symbols and number names	Number symbols & number names	Names & symbols
Describe, compare and order numbers	Describe, compare & order numbers	Comparing numbers to 20
		Ordinal numbers
Place value	Place value	Partitioning numbers to 100
		Representing 2-digit numbers
		Identifying the value of digits
		Solving problems with place value
Addition and subtraction	Problem solving: addition & subtraction	Addition & subtraction problems
Repeated addition leading to multiplication	Problem solving: repeated addition	Repeated addition to 20
Grouping and sharing leading to division	Problem solving: grouping and sharing	Grouping to 20
		Sharing to 20
Addition and subtraction	Addition & subtraction	Adding up to 9
		Addition in any order
		Adding zero
		Adding by bridging to 10
		Adding using doubles
		Adding up to 20
		Finding the difference
		Subtracting zero
		Fact families, addition & subtraction
		Adding & subtracting to 20 fluently
	Number bonds to 10	Recognising & recalling number bonds to 10
Repeated addition leading to multiplication	Multiplication	Repeated addition
Mental mathematics	Number concept	Numbers before & after
		Ordering numbers to 20
	Recall number bonds to 10	Rapid recall of number bonds to 10

	Calculation strategies	Adding doubles & near doubles
		Subtracting using doubles
		Mental strategies for addition & subtraction

2 Patterns, Functions and Algebra

Topic	Quests	Content
Geometric patterns	Geometric patterns	Recognising repeating patterns
		Completing repeating patterns
		Creating repeating patterns
Number patterns	Number patterns	Repeating number patterns
		Odd & even patterns
		Additive patterns
		Growing & shrinking patterns

3 Space and Shape (Geometry)

Topic	Quests	Content
Position, orientation and views	Position, orientation & views	Describing position
		Left & right
		Following directions
2-D shapes	2-D shapes	Identifying circles, triangles & squares
Symmetry	Symmetry	Recognising lines of symmetry

4 Measurement

Topic	Quests	Content
Time	Time	Days of the week
		Months of the year
		Calendars
Length	Length	Length
Mass	Mass	Mass
		Comparing mass
		Comparing & ordering masses
Capacity/volume	Volume	Introducing volume
		Estimating, comparing & ordering volumes
Represent sorted collection of objects	Sort & represent data	Introducing tally charts
Collect and organise data	Collect & use data	Asking questions to collect data
		Using & ordering data
Represent data	Represent data in simple displays	Representing data using simple displays
Analyse and interpret data	Interpret basic data displays	Interpreting basic data displays

Grade 2

1 Numbers, Operations and Relationships

Topic	Quests	Content
Count objects	Count objects	Counting collections
Count forwards and backwards	Count in 1s	Counting up & back in 1s up to 50
		Counting forwards & backward in 1s to 100
		Counting up & back in 1s to 200
	Count in 2s	Counting in 2s up to 50
		Counting up & back in 2s to 100
		Counting in 2s up to 200
	Count in 5s	Counting in 5s up to 50
		Counting in 5s up to 100
		Counting in 5s up to 200
	Count in 10s	Counting up in 10s up to 100
		Counting back in 10s within 100
		Counting forwards & backwards in 10s within 100
		Counting in 10s up to 200
	Count in 3s	Counting forwards & backwards in 3s within 30
		Counting in 3s up to 30 from any multiple
		Counting forwards & backwards in 3s within 100
	Counting in 4s	Counting up & back in 4s within 40
		Counting up & back in 4s up to 100
Number symbols and number names	Number symbols & number names	Number names & numerals up to 100
Describe, compare and order numbers	Describe, compare & order numbers	Comparing & ordering numbers up to 50
		Comparing & ordering numbers up to 100
	Ordinal numbers	Ordinal numbers
Place value	Recognise place value	Partitioning 2-digit numbers
		Solving problems with place value
Addition and subtraction	Addition & subtraction problems	Solving addition & subtraction word problems
Repeated addition leading to multiplication	Multiplication & division problems	Multiplication & division problems (2, 5, 10)
Grouping and sharing leading to division	Grouping & sharing problems	Multiplication problems
		Division problems

		Multiplication & division problems (2, 5, 10)
Addition and subtraction	Addition & subtraction to 20	Adding & subtracting to 20
		Adding & subtracting with missing numbers to 20
	Addition to 100	Adding within 100 using jump strategy
		Adding within 100 using split strategy
		Adding within 100 using mixed strategies
	Subtraction within 100	Subtracting within 100 using jump strategy
		Subtracting within 100 using split strategy
		Subtracting two 2-digit numbers using addition
		Subtracting within 100 using mixed strategies
	Addition & subtraction within 100	Add & subtract within 100 using various strategies
		Using number sense in addition & subtraction
		Equivalent addition & subtraction number sentences
Repeated addition leading to multiplication	Strategies for multiplying	Introducing & describing arrays
		The commutative property of multiplication
		Using repeated addition to multiply
		Multiplying by 1 or 0
Mental mathematics	Number concept up to 100	Ordering numbers to 100
		Numbers before & after
	Add & subtract mental calculations	Adding & subtracting tens
		Number bonds to 20
	Strategies for addition & subtraction	Counting on & back using a number line
		Adding by counting on from the largest number
		Fact families addition & subtraction
		Adding doubles
		Subtracting doubles
		Adding by selecting an efficient strategy
		Subtracting by selecting an efficient strategy
		Adding & subtracting efficiently
		Adding by partitioning using a number line
		Subtracting by partitioning using a number line

		Adding & subtracting by using a number line
		Understanding the meaning of fraction symbols
Fractions	Introduction to fractions	Quarters of objects, sets or shapes
		Finding halves & quarters
		Halves & quarters of linear models or sets
		Introducing thirds
		Introducing fifths
		Recognising patterns

2 Patterns, Functions and Algebra

Topic	Quests	Content
Geometric patterns	Geometric patterns	Manipulating patterns
		Creating & extending repeating patterns
		Creating & extending more complex patterns
Number patterns	Number patterns	Odd & even patterns
		Growing patterns
		Describing patterns

3 Space and Shape (Geometry)

Topic	Quests	Content
Position, orientation and views	Position, orientation & views	The language of position Following & giving directions
3-D objects	3-D shapes/objects	3-D shapes/objects (edges, vertices & faces) Introducing spheres Introducing cones Introducing cubes
2-D shapes	2-D shapes	Sorting 2-D shapes
Symmetry	Symmetry	Recognising lines of symmetry

4 Measurement

Topic	Quests	Content
Time	Months, weeks & days	Days of the week
		Months of the year
		Calendars
	Tell the time	Telling time to the hour
		Telling time to the half hour
		Telling time to the quarter hour
Length	Length	Informal measuring
Mass	Mass	Comparing & ordering mass using pan balance
		Comparing & ordering masses using informal units
		Introducing formal units: kilograms
Capacity/volume	Volume	Comparing & ordering containers
		Comparing & ordering volumes of models of blocks
		Comparing & ordering volumes through displacement
		Introducing volume & capacity (L)
Represent data	Represent data	Pictographs
Analyse and interpret data	Interpret data	Introducing pictographs



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