

Mathletics

White Rose Maths Aligned

Skill Quests & Activities



Years 1-3
September 2023

Mathletics

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Year 1

Autumn

Number: Place value (within 10)	
Course Topic	Activities Title
Autumn: Number (place value within 10)	Dot Display
	How Many?
	Matching Numbers to 10
	Order Numbers to 10
	Picture Graphs: More or Less
	Pictograms: Who has the Goods?
	More, Less or the Same to 10

Number: Addition and subtraction (within 10)	
Course Topic	Activities Title
Autumn: Number (addition and subtraction within 10)	Adding to make 5 and 10
	Adding to Ten
	Adding to 10 Word Problems
	Model Addition
	Model Subtraction
	All about Ten
	Subtracting from Ten
	Balance Numbers to 10

Geometry: Shape	
Course Topic	Activities Title
Autumn: Geometry (shape)	Collect Simple Shapes
	Match the Solid 1
	Collect the Objects 1
	Complete the Pattern

Spring

Number: Place value (within 20)	
Course Topic	Activities Title
Spring: Number (place value within 20)	Counting Up to 20
	Making Teen Numbers
	Before, After and Between to 20
	More, Less or the Same to 20
	1 more 2 less
	Matching Numbers to 20
	Order Numbers to 20
	Compare Numbers to 20
	Concept of Zero

Number: Addition and subtraction (within 20)	
Course Topic	Activities Title
Spring: Number (add and subtract within 20)	Additive Addition
	Simple Subtraction
	All about Twenty
	Doubles and halves to 20
	Doubles and Near Doubles
	Adding in any order
	Related Facts 1
	Add and Subtract Problems

Number: Place value (within 50)	
Course Topic	Activities Title
Spring: Number (place value within 50)	Counting Forwards
	Counting Backwards
	Making Numbers Count
	Compare Numbers to 50

Measurement: Length and height	
Course Topic	Activities Title
Spring: Measurement (length and height)	Everyday Length
	Compare Length

Measurement: Mass and volume	
Course Topic	Activities Title
Spring: Measurement (mass and volume)	Everyday Mass
	How Full?
	Which Holds More?
	Filling Fast!

Summer

Number: Multiplication and division	
Course Topic	Activities Title
Summer: Number (multiply and divide)	Grouping in Twos
	Grouping in Tens
	Grouping in Fives
	Groups
	Share the Treasure

Number: Fractions	
Course Topic	Activities Title
Summer: Number (fractions)	Halves
	Is it Half?
	Halves and Quarters

Geometry: Position and direction	
Course Topic	Activities Title
Summer: Geometry (position and direction)	Left or Right?
	Where is it?
	Following Directions
	Ordinal Numbers

Number: Place value (within 100)	
Course Topic	Activities Title
Summer: Number (place value within 100)	Going Up
	Going Down
	Making Big Numbers Count
	Number Lines
	Number line order
	1 More, 2 Less
	Compare Numbers to 100
	Arranging Numbers

Measurement: Money	
Course Topic	Activities Title
Summer: Measurement (money)	Identify Everyday Money (GBP)

Measurement: Time	
Course Topic	Activities Title
Summer: Measurement (time)	Tell Time to the Half Hour (UK)
	Tell Time to the Hour (UK)
	Tomorrow and Yesterday (Scaffolded)
	Tomorrow and Yesterday (without scaffold)
	Days of the Week

	Days: After and Before
	Calendar: Days and Dates
	Months of the Year
	Weekdays and Weekends

Year 2

Autumn

Number: Place value	
Course Topic	Activities Title
Autumn: Number (place value)	Matching Numbers to 20
	Compare Numbers to 20
	Reading Numbers to 30
	Making Numbers Count
	Make Big Numbers Count
	Place Value 1
	Repartition Two-digit Numbers
	Number Lines
	Before, After & Between to 100
	Compare Numbers to 50
	Compare Numbers to 100
	Arranging Numbers
	Count by Twos
	Count by Fives
	Count by Tens
	Count by 2s, 5s and 10s
	Counting on a 100 grid

Number: Addition and subtraction	
Course Topic	Activities Title
Autumn: Number (addition and subtraction)	Adding to Make 5 and 10
	Adding In Any Order
	Commutative Property of Addition
	Fact Families: Add and Subtract
	Complements to 10, 20, 50
	Add 3 Numbers Using Bonds to 10
	Add 3 Single Digit Numbers
	1 More, 2 less
	Adding to 2-digit numbers
	10 More, 10 Less
	Subtract Tens
	Magic Mental Addition
	Subtract Numbers
	Subtract Numbers: Regroup
	Magic Mental Subtraction
	Repartition to Subtract
	Balance Additions to 20
	All about Twenty

Geometry: Shape	
Course Topic	Activities Title
Autumn: Geometry (shape)	Collect Simple Shapes
	Count Sides and Corners
	Symmetry
	Faces, Edges and Vertices
	Collect the Objects 1
	Pattern Error

Spring

Measurement: Money	
Course Topic	Activities Title
Spring: Measurement (money)	Skip Counting with Coins
	How much Change? (GBP)

Number: Multiplication and division	
Course Topic	Activities Title
Spring: Number (multiplication and division)	Groups
	Frog Jump Multiplication
	Multiplication Arrays
	Arrays 1
	Arrays 2
	Share the Treasure
	Fill the Jars
	Multiplication Turnarounds
	Groups of Two
	Dividing Twos
	Doubles and Halves to 20
	Odd or Even
	Groups of Ten
	Dividing Tens
	Groups of Five
	Dividing Fives

Measurement: Length and height	
Course Topic	Activities Title
Spring: Measurement (length and height)	How Long is That?
	Ordering Lengths (cm)

Measurement: Mass, capacity and temperature	
Course Topic	Activities Title
Spring: Measurement (mass, capacity and temperature)	Balancing Objects
	How Heavy?
	How Heavy is it?
	Ordering Mass (g)
	How Full?
	Using a Litre
	What's the Temperature (Celsius)?

Summer

Number: Fractions	
Course Topic	Activities Title
Summer: Number (fractions)	Is it Half?
	Halves
	Thirds and Sixths
	Shade Fractions
	Halves and Quarters

Measurement: Time	
Course Topic	Activities Title
Summer: Measurement (time)	Tell Time to the Hour (UK)
	Tell Time to the Half Hour (UK)
	Quarter To and Quarter Past
	Five Minute Times

Statistics	
Course Topic	Activities Title
Summer: Statistics	Tallies
	Interpreting Tables
	Picture Graphs: single-unit scale
	Pictograms: Who has the Goods?
	Pictographs

Geometry: Position and direction	
Course Topic	Activities Title
Summer: Geometry (position and direction)	Left or Right?
	Where is it?
	Following Directions
	Ordinal Numbers

Problem solving	
Course Topic	Activities Title
Problem solving	Partition Puzzles 1
	Missing Numbers
	Bar Model Problems 1
	Add and Subtract Problems
	Problems: Add and Subtract

Year 3

Autumn

Number: Place value	
Skill Quests	Skills
A1 Place value review	Represent numbers to 100
	Partition numbers to 100
	Number line to 100
A1 Place value	Hundreds
	Represent numbers to 1,000
	Partition numbers to 1,000
	Flexible partitioning to 1000
	Hundreds, tens & ones
	Find 1, 10 or 100 more or less than a number
	Number line to 1,000
A1 Ordering & comparing numbers	Compare numbers to 1,000
	Order numbers to 1,000
A1 Skip counting in 50s	Count in 50s
Course Topic	Activities Title
Autumn: Number (place value)	Before, After & Between to 100
	Compare Numbers to 100
	Place Value 1
	Number Line Order
	Place Value 2
	Model Numbers
	Place Value to Thousands
	Partition and Rename 1
	Place Value Partitioning
	Repartition Two-digit Numbers
	Which is Bigger?
	Which is Smaller?
	Ascending Order
	Descending Order

Number: Addition and Subtraction	
Skill Quests	Skills
A2 Addition & subtraction review	Number bonds within 10
	Add & subtract 1s
	Add & subtract 10s
	Add & subtract 100s
	Spot the pattern - making it explicit
A2 Addition & subtraction with exchanges	Add 1s across a 10
	Add 10s across 100
	Subtract 1s across a 10
	Add/subtract two numbers-not crossing 100
	Add two numbers - crossing 10 & 100
	Subtract two numbers - crossing 10 & 100

	Add/subtract 2/3-digit numbers-not crossing 10/100
	Add 2 & 3-digit numbers - crossing 10 or 100
	Subtract 2-digits from 3-digits crossing 10 or 100
A2 Addition & Subtraction Strategies	Complements to 100
	Estimate answers to calculations
	Inverse operations
	Making decisions
Course Topic	Activities Title
Autumn: Number (addition and subtraction)	Add 3 Numbers Using Bonds to 10
	Add 3 Numbers: Bonds to Multiples of 10
	Columns that Add
	Add Two 2-Digit Numbers
	Add 3-Digit Numbers
	Columns that Subtract
	Subtract Numbers
	3-Digit Differences
	Add Numbers: Exchange a Ten (UK)
	Column Addition 1 (UK)
	Add 3-Digit Numbers: Exchanging (UK)
	2-Digit Differences: Exchanging (UK)
	Add Multi-Digit Numbers 1 (UK)
	Magic Mental Addition
	Magic Mental Subtraction
	Bump Add and Subtract

Number: Multiplication and division A	
Skill Quests	Skills
A3 Multiplication & division review	Equal groups
	Arrays
	Multiples of 2
	Multiples of 5 & 10
	Sharing & grouping
A3 Multiplication & division facts	Multiply by 3
	Divide by 3
	The 3 times-table
	Multiply by 4
	Divide by 4
	The 4 times-tables
	Multiply by 8
	Divide by 8
	The 8 times-table
	The 2,4 & 8 times-tables
Course Topic	Activities Title
Autumn: Number (multiplication and division A)	Arrays 1
	Arrays 2
	Fill the Jars
	Groups of Three
	Groups of Four
	Groups of Eight
	Dividing Threes
	Dividing Fours

	Dividing Eights
	Frog Jump Multiplication
	Frog Jump Division

Spring

Number: Multiplication and division B	
Skill Quests	Skills
Sp1 Multiplication	Multiples of 10
	Related calculations
	Reasoning about multiplication
	2-digits by 1-digit (with exchange)
Sp1 Division	Linking multiplication & division
	Divide 2-digit by 1-digit-no exchange or remainder
	Divide 2-digit by 1-digit-exchange, no remainder
	Divide 2-digits by 1-digit (with a remainder)
Sp1 Scaling & combinations	Scaling
	How many ways?
Course Topic	Activities Title
Spring: Number (multiplication and division B)	Grouping in Tens
	Multiplication Turnarounds
	Mental Methods Multiplication 1
	Related facts 2
	Remainders by Arrays

Measurement: Length and perimeter	
Skill Quests	Skills
Sp2 Length	Measure in m & cm
	Measure in mm
	Measure in cm & mm
	Metres, centimetres & millimetres
	Equivalent lengths - m & cm
	Equivalent lengths - mm & cm
	Compare lengths
	Add & subtract lengths
Sp2 Perimeter	Introducing perimeter
	Measure perimeter
	Calculate perimeter
Course Topic	Activities Title
Spring: Measurement (length and perimeter)	Which Unit of Measurement?
	Measure to the Nearest Half Centimetre
	How Long is That?
	Perimeter

Number: Fractions A	
Skill Quests	Skills
Sp3 Fractions A	Understand denominators & numerators
	Compare & order unit fractions
	Understand the whole
	Compare & order non-unit fractions
	Counting with fractions on a number line
	Equivalent fractions on a number line

	Equivalent fractions on a bar model
Course Topic	Activities Title
Spring: Number (fractions A)	Model Fractions
	Partition into Equal Parts
	Fraction Length Models 2
	Identifying Fractions on a Number Line
	Compare Fractions 1a
	Equivalent Fraction Wall 1

Measurement: Mass and capacity	
Skill Quests	Skills
Sp4 Mass	Use scales
	Measure mass in grams
	Measure mass in kilograms & grams
	Compare & order mass
	Add & subtract mass
Sp4 Capacity	Measure capacity & volume in mL
	Measure capacity & volume in L
	Measure capacity & volume in mL & L
	Compare capacity & volume
	Add & subtract capacity
Course Topic	Activities Title
Spring: Measurement (mass and capacity)	How Heavy is it?
	Grams and Kilograms
	Kilogram Conversions
	Using a Litre

Summer

Number: Fractions B	
Skill Quests	Skills
Sum1 Fractions B	Add fractions
	Subtract fractions
	Partition the whole
	Find a unit fraction of a set
	Find a non-unit fraction of a set
	Reasoning with fractions of amounts
Course Topic	Activities Title
Summer: Number (fractions B)	Add Subtract Fractions 1
	Add Like Fractions
	Subtract Like Fractions
	Fractions of a Collection 1

Measurement: Money	
Skill Quests	Skills
Sum2 Money	Pounds & pence
	Convert pounds & pence
	Add & subtract money
	Give change
Course Topic	Activities Title
Summer: Measurement (money)	Money - adding (GBP)
	How much Change? (GBP)

Measurement: Time	
Skill Quests	Skills
Sum3 Time	Telling the time to 5 minutes incl roman numerals
	Telling the time to the minute incl roman numerals
	Read time on a digital clock
	Using a.m. & p.m.
	Years, months & days
	Days & hours
	Hours & minutes: use start & end times
	Hours & minutes: use duration
	Minutes & seconds
	Units of time
	Solve problems with time
Course Topic	Activities Title
Summer: Measurement (time)	Five Minute Times
	What is the Time?
	Months After and Before
	Using a Calendar
	Elapsed Time
	What Time Will it Be?
	Time Conversions: Whole Numbers 1

Geometry: Shape	
Skill Quests	Skills
Sum4 Shape	Turns & angles
	Right angles in shapes
	Compare angles
	Horizontal & vertical
	Parallel & perpendicular
	Recognise & describe 2-D shapes
	Recognise & describe 3-D shapes
	Make 3-D shapes
Course Topic	Activities Title
Summer: Geometry (shape)	Right Angle Relation
	What Type of Angle 2?
	What Line am I?
	Collect More Shapes
	Collect the Objects
	Count the Edges
	Count the Faces
	How many Vertices?
	Faces, Edges and Vertices of 3D Shapes

Statistics	
Skill Quests	Skills
Sum5 Statistics	Interpreting pictograms
	Interpreting bar charts
	Collect & represent data
	Two-way tables
Course Topic	Activities Title
Summer: Statistics	Making Picture Graphs: With Scale
	Bar Chart
	Reading from a Bar Chart
	Interpreting Tables

Problem Solving	
Course Topic	Activities Title
Problem solving	Pick the Next Number
	Commutative Property of Addition
	Bar Model Problems 1
	Pyramid Puzzles 1
	Magic Symbols 1
	Problems: Multiply and Divide



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