

Mathletics

England Key Stage 1

Activities (Courses) and Skill Quests



May, 2026



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Activities (Courses) & Skill Quests

May, 2026

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Year 1

Number

Place value

Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Activities

N - Number and Place Value to 50	1 to 30
N - Number and Place Value to 100	Going Up
	Going Down

Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens

Activities

N - Number and Place Value to 50	Making Teen Numbers
	Making Numbers Count
	Reading Numbers to 30
N - Number and Place Value to 100	Making Big Numbers Count
	Place Value 1
	Counting by Twos
	Counting by Fives
	Counting by Tens

Given a number, identify one more and one less

Activities

N - Number and Place Value to 50	Before, After and Between to 20
	Counting Forwards
N - Comparing Numbers	Before, After & Between to 100

Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least

Activities

N - Number and Place Value Review	Order Numbers to 20
	Compare Numbers to 20
N - Number and Place Value to 50	More, Less or the Same to 20
	Compare Numbers to 50
N - Number and Place Value to 100	Number Lines
	Number Line Order
N - Comparing Numbers	Greater or Less to 100
	Arranging Numbers
N - Problem Solving	Who has the Goods?
S - Statistics	Who has the Goods?

Read and write numbers from 1 to 20 in numerals and words

Activities

N - Number and Place Value Review	Matching Numbers to 20
	Counting Up to 20

Addition and subtraction

Read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs	
Activities	
N - Addition and Subtraction	Additive Addition
	Addition Facts
	Addition
	Subtracting from Ten
	Subtraction Facts to 18
	Simple Subtraction
	Subtract Tens
N - Problem Solving	Problems: Add and Subtract
	Add and Subtract Problems
	Adding to 10 Word Problems
	Problems: Add and Subtract

Represent and use number bonds and related subtraction facts within 20	
Activities	
N - Addition and Subtraction	Adding to make 5 and 10
	All about Twenty
N - Number and Place Value to 50	Doubles and Halves to 10

Add and subtract one-digit and two-digit numbers to 20, including zero	
Activities	
N - Fractions	Doubles and Near Doubles

Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.	
Activities	
N - Addition and Subtraction	Balance Numbers to 10
	Balance Numbers to 20

Multiplication and division

Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	
Activities	
N - Multiplication and Division	Groups
	Groups of Two
	Groups of Ten
	Groups of Five
	Share the Treasure
	Multiplication Arrays
	Model Multiplication to 5×5

Fractions

Recognise, find and name a half as one of two equal parts of an object, shape or quantity

Activities

N - Fractions

Is it half?

Halves and Quarters

Doubles and Halves to 20

Doubles and Halves to 10

Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity

Activities

Teacher directed

Measurement

Measurement

Compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]; mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]; time [for example, quicker, slower, earlier, later]

Activities

N - Problem Solving

Balancing Objects

M - Length, Mass and Volume

Which Holds More?

Everyday Mass

Filling Fast!

Everyday Length

Comparing Length

Comparing Volume

Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume; time (hours, minutes, seconds)

Activities

M - Length, Mass and Volume

Measuring Length with Blocks

Which measuring tool?

How Full?

Recognise and know the value of different denominations of coins and notes

Activities

M - Time and Money

Everyday Money (GBP)

Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]

Activities

Teacher directed

Recognise and use language relating to dates, including days of the week, weeks, months and years

 **Activities**

M - Time and Money

Days of the Week

Weekdays and Weekends

Months After and Before

Months of the Year

Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times

 **Activities**

M - Time and Money

Hour Times

Tell Time to the Half Hour (UK)

Geometry

Properties of shapes

Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]; 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]

 **Activities**

G - Properties of Shape and Position

Flip, Slide, Turn

Where is it?

Left or Right?

Position and direction

Describe position, direction and movement, including whole, half, quarter and three-quarter turns

 **Activities**

G - Properties of Shape and Position

Collect Simple Shapes

Match the Solid 1

Collect the Objects 1

Count Sides and Corners

How Many Faces?

Year 2

Number

Place Value

Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward

Activities

N - Number and Place Value Counting

- Count by Twos
- Count by Tens
- Count by Fives
- Count by 2s, 5s and 10s
- Counting on a 100 grid

Skill Quests

Count in number sequences

- Counting in 2s
- Counting in 5s
- Counting in 10s
- Counting in 2s, 5s and 10s
- Counting in 3s
- Counting starting on any number

Recognise the place value of each digit in a two-digit number (tens, ones)

Activities

N - Number and Place Value to 100 (1)

- Repartition Two-digit Numbers

Skill Quests

Place value of 2-digit numbers

- Tens and ones
- Partitioning tens and ones
- Non-standard partitioning of tens and ones

Identify, represent and estimate numbers using different representations, including the number line

Activities

N - Number and Place Value to 100 (1)

- Make Big Numbers Count
- Making Big Numbers Count
- Ordinal Numbers
- 1st to 31st
- Odd or Even
- Odd and Even Numbers 1

Skill Quests

Identify, represent and estimate numbers

- Numbers to 100
- Ordinal numbers

Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs

Activities

N - Number and Place Value to 100 (1)

- Compare Numbers to 100
- Number Line Order
- Arranging Numbers

Skill Quests	
Compare and order numbers up to 100	Comparing and ordering collections to 20
	Comparing and ordering numbers to 100

Read and write numbers to at least 100 in numerals and in words	
Activities	
N - Number and Place Value to 100 (1)	Before, After & Between to 100
	Place Value 1
Skill Quests	
Read and write numbers to 100	Reading and writing numbers to 100

Use place value and number facts to solve problems	
Activities	
Teacher directed	
Skill Quests	
Use place value to solve problems	Using place value to solve problems

Addition and subtraction

Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods	
Activities	
N - Add and Subtract (2)	Problems: Add and Subtract
	Missing Numbers
	Bar Model Problems 1
N - Problem Solving	Partition Puzzles 1
	Adding to 10 Word Problems
	Add and Subtract Problems
	Word Problems: Add and Subtract
	Missing Numbers
	Bar Model Problems 1
Skill Quests	
Problem solving: addition/subtraction	Addition and subtraction problems within 20
	Addition and subtraction problems within 100
	Exploring change in quantity

Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	
Activities	
N - Add and Subtract (1)	All about Twenty
	Balance Additions to 20
Skill Quests	
Addition and subtraction facts	Number bonds to 20
	Doubles and near doubles
	One more and one less within 100
	Number bonds to 100
	Adding zero to a number
	Subtracting zero from a number

Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and 1s; a two-digit number and 10s; 2 two-digit numbers; adding 3 one-digit numbers

 **Activities**

Teacher directed

 **Skill Quests**

Add and subtract numbers	Adding 1-digit numbers
	Adding 1-digit and 2-digit numbers
	Adding 2-digit numbers and 10s
	Add two 2-digit numbers
	Subtracting 1-digit and 2-digit numbers
	Subtracting 2-digit numbers and 10s
	Subtracting two 2-digit numbers
	Introducing vertical addition and subtraction
	Using mental strategies to add and subtract
Using the bar model within 20	

Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot

 **Activities**

N - Add and Subtract (2)	Commutative Property of Addition
N - Problem Solving	Commutative Property of Addition

 **Skill Quests**

Commutativity in addition	Commutativity in addition
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Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems

 **Activities**

N - Add and Subtract (1)	Fact Families: Add and Subtract
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 **Skill Quests**

Rules of addition and subtraction	Relationships between addition and subtraction
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Multiplication and division

Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

 **Activities**

N - Number and Place Value to 100 (2)	Doubles and Halves to 20
N - Multiply and Divide	Groups of Ten
	Groups of Two
	Groups of Five
	Dividing Tens
	Dividing Twos
Dividing Fives	


 **Skill Quests**

Multiplication and division facts	2 times-tables
	5 times-tables
	10 times-tables
	Multiplying by 2s, 5s and 10s

	Dividing by 2
	Dividing by 5
	Dividing by 10
	Dividing by 2s, 5s and 10s
	Multiplying and dividing by 2, 5, and 10
	Odd and even numbers


Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs

Activities

N - Multiply and Divide	Multiplication Arrays
	Arrays 2
	Arrays 1
	Frog Jump Multiplication
	Fill the Jars
N - Problem Solving	Fill the Jars
 Skill Quests	
Create mathematical sentences	Creating mathematical sentences


Show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot

Activities

N - Multiply and Divide	Multiplication Turnarounds
 Skill Quests	
Rules of multiplication	The commutative law of multiplication
	Relationship between multiplication and division

Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts


Activities

N - Multiply and Divide	Fill the Jars
N - Problem Solving	Fill the Jars
N - Fractions	Divide Into Equal Groups
	Making Equal Groups
 Skill Quests	
Multiplication and division problems	Using arrays
	Adding to multiply
	Solving problems using multiplication and division

Fractions



Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity

Activities

N - Fractions	Shade Fractions
	Halves and Quarters
	Fractions of a Collection 1
 Skill Quests	
Fractions	Halves
	Quarters

	Halves and quarters
	Thirds
	Counting in halves and quarters
	Counting in thirds
	Ordering and comparing simple fractions
	Finding quarters by halving



Write simple fractions, for example $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

 Activities	
Teacher directed	
 Skill Quests	
Equivalence in fractions	Equivalence in fractions


Measurement

Measurement

Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

 Activities	
N - Problem Solving	Which Unit of Measurement?
M - Length, Mass and Volume	How Heavy?
	Measuring Length with Blocks
	How Long is That?
	Measure to the Nearest Half Centimetre
	Temperature
	Using a Litre
	Which Measuring Tool?
 Skill Quests	
Measure lengths	Measuring lengths - informal
	Measuring lengths - cm
	Selecting appropriate units to measure length
	Word problems using length
Measure mass	Introducing weight and mass
	Measuring mass in kilograms
	Measuring mass in grams
	Selecting appropriate unit to measure mass
Measure volume	Capacity and volume
	Measuring capacity using litres
	Measuring capacity using millilitres
	Selecting appropriate units to measure volume
Reading a thermometer	Temperature
Identify correct unit of measure	Choosing the right unit of measure

Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$

 Activities	
N - Problem Solving	Balancing Objects
M - Length, Mass and Volume	How Full?
	Ordering Mass (g)
	Ordering Lengths (cm)

	Ordering Volumes (l)
👑 Skill Quests	
Compare lengths, mass and volume	Comparing lengths
	Comparing mass
	Comparing volume
Compare temperatures	Comparing temperatures

Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	
☰ Activities	
M - Time and Money	Money - Who's got it? (GBP)
👑 Skill Quests	
Teacher directed	



Find different combinations of coins that equal the same amounts of money	
☰ Activities	
Teacher directed	
👑 Skill Quests	
Combinations of coins	Combinations of money

Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	
☰ Activities	
M - Time and Money	How much Change? (GBP)
👑 Skill Quests	
Add and subtract money	Adding and subtracting money

Compare and sequence intervals of time	
☰ Activities	
M - Time and Money	Days of the Week
	Weekdays and Weekends
	Days: After and Before
	Months of the Year
	Months After and Before
👑 Skill Quests	
Internals of time	Comparing and sequencing intervals of time



Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times	
☰ Activities	
M - Time and Money	Tell Time to the Half Hour (UK)
	Five Minute Times
👑 Skill Quests	
Tell the time: digital and analogue	O'clock and half past (analogue clocks)
	O'clock and half past (digital clocks)
	Quarter past and quarter to (analogue clocks)
	Quarter past and quarter to (digital clocks)



	Telling time to 5 minutes (analogue clocks)
	Telling time to 5 minutes (digital clocks)
	Problem solving with hours and minutes



Know the number of minutes in an hour and the number of hours in a day	
 Activities	
Teacher directed	
 Skill Quests	
Teacher directed	

Geometry

Properties of shapes

Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line	
 Activities	
G - Properties of Shapes	Collect the Shapes 1
	Count Sides and Corners
	Symmetry
 Skill Quests	
2-D shapes	Recognising 2-D shapes
	Recognising lines of symmetry in 2-D shape

Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces	
 Activities	
G - Properties of Shapes	Collect the Objects
	Match the Solid 1
	How many Edges?
	How many Corners?
	How many Faces?
	Faces, Edges and Vertices
 Skill Quests	
3-D shapes	Introducing spheres
	Introducing cubes
	Introducing cylinders
	Introducing prisms
	Introducing cones
	Introducing pyramids
	Describing the properties of 3-D shapes
Building 3D shapes	

Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]	
 Activities	
G - Properties of Shapes	Relate Shapes and Solids
 Skill Quests	
Identify 2-D shapes on 3-D shapes	Identifying 3-D shapes in the environment

Compare and sort common 2-D and 3-D shapes and everyday objects

 **Activities**

Teacher directed

 **Skill Quests**

Compare and sort 2-D and 3-D shapes

Sorting 2-D shapes

Sorting 3-D shapes

Comparing 2-D shapes

Comparing 3-D shapes

Position and direction

Order and arrange combinations of mathematical objects in patterns and sequences

 **Activities**

N - Problem Solving

Complete the Pattern

Missing it!

 **Skill Quests**

Patterns and sequences

Making patterns with shapes

Number patterns

Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)

 **Activities**

G - Position and Direction

Flip, Slide, Turn

Following Directions

Left or Right?

Where is it?

 **Skill Quests**

Position, direction and movement

Describing position and movement

Describing movement and turns

Following directions

Statistics

Statistics

Interpret and construct simple pictograms, tally charts, block diagrams and tables

 **Activities**

S - Statistics

More or Less?

Picture Graphs

Column Graphs

Making Graphs

Reading from a Column Graph

 **Skill Quests**

Interpret and construct graphs

Pictograms



Tally charts



Block diagrams

Tables

Mixed data displays

	Constructing graphs
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Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity	
 Activities	
S - Statistics	Sorting Data
	Tallies
 Skill Quests	
Answer questions about data	Answering questions by counting

Ask and answer questions about totalling and comparing categorical data	
 Activities	
Teacher directed	
 Skill Quests	
Ask questions and collect data	Asking questions and collecting data



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