

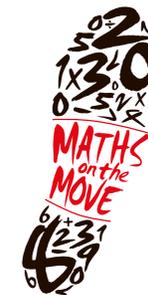
Maths on the Move

Lesson objectives

Year 1 - 6 | 2020-2021

Year 1.

Maths on the Move Lesson objectives



| Autumn | |
|--------|-------------------------------------------------------------------------|
| 1 | To identify one more and one less than a number |
| 2 | To read and write numbers to 10 |
| 3 | To count objects up to 10 |
| 4 | To place numbers on a number line |
| 5 | To understand 'more than' and 'less than' |
| 6 | To order numbers from smallest to largest |
| 7 | To count in multiples of 2 |
| 8 | To create number sentences using + and - |
| 9 | To describe movement using whole, half, quarter and three quarter turns |
| 10 | To recognise and name 2D and 3D shapes |
| 11 | To use number bonds to 20 |
| 12 | Recap lessons 1-11 |

| Spring | |
|--------|-----------------------------------------------------------|
| 1 | To show numbers using pictures |
| 2 | To tell the time to the hour and half past the hour |
| 3 | To sort 2D shapes |
| 4 | To read and write numbers to 40 |
| 5 | To add and subtract one digit and two digit numbers to 20 |
| 6 | To compare and describe length and height |
| 7 | To count in multiples of fives and tens |
| 8 | To create number sentences using +, - and = |
| 9 | To solve missing number problems using pictures |
| 10 | To recognise half of an amount |
| 11 | To solve multiplication problems using pictures |
| 12 | Recap lessons 1-11 |

| Summer | |
|--------|-----------------------------------------------------|
| 1 | To know 1 more and 1 less of numbers up to 100 |
| 2 | To add and subtract 1 and 2 digit numbers to 20 |
| 3 | To solve missing number problems |
| 4 | To recognise and sort 2D and 3D shapes |
| 5 | To know the value of different coins |
| 6 | To count in multiples of fives and tens |
| 7 | To recognise number patterns |
| 8 | To recognise a quarter of an amount |
| 9 | To compare and describe different weights |
| 10 | To double numbers |
| 11 | To recognise the odd one out for shapes and numbers |
| 12 | Recap lessons 1-11 |

Year 2.

Maths on the Move Lesson objectives



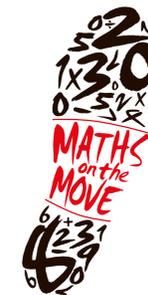
| Autumn | |
|--------|------------------------------------------------------------------|
| 1 | To count in 2s, 3s and 5s |
| 2 | To recognise place value in a two digit number |
| 3 | To estimate numbers up to 100 using a number line |
| 4 | To compare and order numbers from 0 to 100 |
| 5 | To understand how to use $<$ $>$ $=$ signs |
| 6 | To read and write numbers to at least 100 in numbers and words |
| 7 | To add three single digit numbers. |
| 8 | To continue and complete number sequences |
| 9 | To compare and order length, including using $<$ $>$ signs |
| 10 | To use addition and subtraction facts to 20 |
| 11 | To use the inverse relationship between addition and subtraction |
| 12 | Recap lessons 1-11 |

| Spring | |
|--------|----------------------------------------------------------------------|
| 1 | To recognise and use symbols of pounds (£) and pence (p) |
| 2 | To add coins to make amounts of money |
| 3 | To identify and describe the properties of 2D shapes |
| 4 | To recognise the value of digits in numbers |
| 5 | To compare and order amounts of money, including using $<$ $>$ signs |
| 6 | To continue and complete number sequences |
| 7 | To continue and complete picture sequences |
| 8 | To identify and describe the properties of 3D shapes |
| 9 | To solve word problems using addition and subtraction facts |
| 10 | To describe the odd one out for shapes |
| 11 | To find $\frac{1}{2}$ of amounts up to 100 |
| 12 | Recap lessons 1-11 |

| Summer | |
|--------|------------------------------------------------------------------------------|
| 1 | To count in multiples of 3 |
| 2 | To write the time to five minutes |
| 3 | To compare and order time |
| 4 | To count backwards in 5s and 10s |
| 5 | To find different combinations of coins that equal the same amounts of money |
| 6 | To complete number and shape sequences |
| 7 | To find $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$ of an amount |
| 8 | To use multiplication and division facts for the 5 and 10 times table |
| 9 | To identify 2D and 3D shapes by their properties |
| 10 | To solve money word problems |
| 11 | To use the inverse to solve missing number problems |
| 12 | Recap lessons 1-11 |

Year 3.

Maths on the Move Lesson objectives



| Mental Maths and Place Value | |
|------------------------------|------------------------------------------------------------|
| 1 | To identify what each digit in a 3 digit number is worth |
| 2 | To add up to and including 3 digit numbers |
| 3 | To subtract up to and including 3 digit numbers |
| 4 | To estimate answers and use the inverse to check |
| 5 | To count in 4s, 8s, 50s and 100s |
| 6 | To multiply using the 3, 4 and 8 times tables |
| 7 | To multiply a 2 digit number by a 1 digit number |
| 8 | To divide using the 3, 4 and 8 times tables |
| 9 | To read and write numbers up to 1000 in numerals and words |
| 10 | To solve missing number problems |
| 11 | Re-cap lessons 1-5 |
| 12 | Re-cap lessons 6-10 |

| Shape and Statistics | |
|----------------------|------------------------------------------------------------------------------------------|
| 1 | To draw 2D and 3D shapes. |
| 2 | To recognise 3D shapes in different orientations and describe them. |
| 3 | To understand properties of a shape and angles. |
| 4 | To recognise right angles and $\frac{1}{4}$ turns. |
| 5 | To identify whether angles are $<$ or $>$ than a right angle. |
| 6 | Recap lessons 1-5 |
| 7 | To identify horizontal and vertical lines and pairs of perpendicular and parallel lines. |
| 8 | To interpret data using bar charts, pictograms and tables. |
| 9 | To enter data onto bar charts and tables |
| 10 | To present data using tally charts. |
| 11 | To solve 2-step problems using graphs and tables. |
| 12 | Recap lessons 7-11. |

| Measurement and Shape | |
|-----------------------|-----------------------------------------------------------------|
| 1 | To add values of money and give change. |
| 2 | To subtract values of money. |
| 3 | To measure and compare length, mass, volume and capacity. |
| 4 | To add lengths, masses and volumes. |
| 5 | To subtract lengths, masses and volumes. |
| 6 | To work out the perimeter of a shape. |
| 7 | Recap lessons 1-6. |
| 8 | To solve time problems in 12/24 hour formats. |
| 9 | To read and write Roman Numerals. |
| 10 | To tell the time with increased accuracy to the nearest minute. |
| 11 | To compare seconds, minutes, hours, days, months and years. |
| 12 | Recap on lessons 8-11. |

Year 4.

Maths on the Move Lesson objectives



| Number and Mental Maths | |
|-------------------------|----------------------------------------------------------------------|
| 1 | To add numbers with up to 4 digits. |
| 2 | To subtract numbers with up to 4 digits. |
| 3 | To estimate and use the inverse to check answers. |
| 4 | To use addition and subtraction techniques to solve 2-step problems. |
| 5 | To count in the 6, 7, 9 and 25 times tables. |
| 6 | To multiply using times tables up to 12. |
| 7 | To multiply 2 and 3 digit numbers by 1 digit numbers. |
| 8 | To divide using times table knowledge. |
| 9 | To round to the nearest 10, 100 and 1000. |
| 10 | To read and convert Roman Numerals up to 1000. |
| 11 | Recap lessons 1-5. |
| 12 | Recap lessons 6-10. |

| Fractions and Decimals | |
|------------------------|-----------------------------------------------------------------|
| 1 | To add decimals to 2 decimal places. |
| 2 | To solve problems that involve subtracting decimals and money. |
| 3 | To understand place value and partitioning when using decimals. |
| 4 | To divide a 1 or 2 digit number by 10 or 100. |
| 5 | To round numbers to 2 decimal places. |
| 6 | Recap on lessons 1-5. |
| 7 | To add fractions with the same denominator. |
| 8 | To subtract fractions with the same denominator. |
| 9 | To recognise common equivalent fractions. |
| 10 | To solve fraction problems with increasing difficulty. |
| 11 | To recognise equivalent fractions and decimals. |
| 12 | Recap on lessons 7-11. |

| Measurement and Shape | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| 1 | To convert between units of measure. |
| 2 | To calculate the perimeter of a rectilinear shape. |
| 3 | To solve problems that involve money by estimating and comparing totals. |
| 4 | To compare and classify shapes based on their properties. |
| 5 | To identify and compare types of angle |
| 6 | To identify lines of symmetry in 2D shapes. |
| 7 | To understand digital and analogue formats of time. |
| 8 | To solve problems in converting time between 12-hour and 24-hour format. |
| 9 | To solve problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days |
| 10 | To use and interpret coordinates in the first quadrant |
| 11 | Recap on previous block of lessons 1-5 |
| 12 | Recap on previous block of lessons 6-10 |

Year 5.

Maths on the Move Lesson objectives



| Number and Place Value | |
|------------------------|----------------------------------------------------------------------------------------|
| 1 | To round numbers to 10, 100, 1000, 10,000, and 100,000 |
| 2 | To add four digit numbers |
| 3 | To subtract 4 digit numbers |
| 4 | To use mental calculations to add large numbers |
| 5 | To multiply 4 digit numbers by 1 or 2 digit numbers |
| 6 | To divide 4 digit numbers by 1 digit numbers |
| 7 | To multiply and divide by 10, 100 and 1000, including decimals |
| 8 | To understand Roman Numerals up to 1000 |
| 9 | To understand square and cube numbers |
| 10 | To solve multi-step problems using: addition, subtraction, multiplication and division |
| 11 | To understand negative numbers |
| 12 | Recap lessons 1-11. |

| Fractions and Decimals | |
|------------------------|-------------------------------------------------------------------------|
| 1 | To solve problems involving numbers with 3 decimal places. |
| 2 | To round decimals to the nearest whole number and to one decimal place. |
| 3 | To recognise and use 1000ths. |
| 4 | To read and write decimals as fractions. |
| 5 | To compare and order fractions. |
| 6 | To identify equivalent Fractions. |
| 7 | To add fractions. |
| 8 | To subtract fractions. |
| 9 | To convert improper fractions and mixed numbers. |
| 10 | To multiply proper and mixed fractions by whole numbers. |
| 11 | To work out percentages as fractions and decimals. |
| 12 | Recap lessons 1-11. |

| Measurement and Geometry | |
|--------------------------|-------------------------------------------------------------------------|
| 1 | To solve problems involving converting units of time. |
| 2 | To convert different metric measures. |
| 3 | To calculate the perimeter of rectilinear shapes. |
| 4 | To calculate area using cm^2 and m^2 |
| 5 | To understand regular and irregular polygons. |
| 6 | To identify 2D shapes. |
| 7 | To identify 3D shapes. |
| 8 | To understand and name different angles. |
| 9 | To identify missing angles on a straight line |
| 10 | To identify missing angles at a point |
| 11 | To use the properties of rectangles to find missing lengths and angles. |
| 12 | Recap lessons 1-11. |

Year 6.

Maths on the Move Lesson objectives



| Number | |
|--------|--------------------------------------------------------|
| 1 | To multiply numbers up to 4 digits by a 2 digit number |
| 2 | To multiply decimal numbers by whole numbers |
| 3 | To complete mental calculations with large numbers |
| 4 | To identify prime numbers |
| 5 | To identify common factors and common multiples |
| 6 | To understand and use BODMAS |
| 7 | To simplify fractions |
| 8 | To add and subtract fractions |
| 9 | To convert between decimals and fractions |
| 10 | To multiply and divide decimals by 10, 100 and 1000 |
| 11 | To solve multistep problems |
| 12 | To recap lessons 1-11 |

| Algebra, Ratio and Proportion | |
|-------------------------------|------------------------------------------------------------|
| 1 | To understand simple formulae |
| 2 | To understand linear sequences |
| 3 | To solve missing number problems written algebraically |
| 4 | To solve questions that have two unknowns |
| 5 | To show all possibilities of combinations of two variables |
| 6 | Recap 1-5 |
| 7 | To understand and solve ratio problems |
| 8 | To solve proportion problems |
| 9 | To find percentages of amounts |
| 10 | To solve percentage word problems |
| 11 | To use ratio knowledge and understand unequal sharing |
| 12 | Recap 7-11 |

| Measurement and Geometry | |
|--------------------------|----------------------------------------------------------------------------|
| 1 | To convert between units of measure |
| 2 | To solve problems that involve area and perimeter |
| 3 | To use formulae to work out area and perimeter |
| 4 | To calculate areas of parallelograms and triangles |
| 5 | To calculate, estimate and compare volumes of cubes and cuboids |
| 6 | To convert between miles and kilometres |
| 7 | To recognise and describe 3D shapes |
| 8 | To know the parts of circles, including radius, diameter and circumference |
| 9 | To find missing angles |
| 10 | To solve coordinate problems |
| 11 | To solve temperature problems with negative numbers |
| 12 | Recap lessons 1-11 |