

BAND 1 Maths

Key Skills:

Number and place value

I can count to and across 100, forwards and backwards, beginning with 0 or one, or from any given number

I can count, read and write numbers to 100 in numerals;

I can count in multiples of two, five and ten

I can identify "one more" and "one less"

Addition and subtraction

I can use number bonds and subtraction facts within 20

I can add and subtract 1-digit and 2-digit numbers to 20, including zero

I can read and write mathematical symbols: +, - and =

Fractions (including decimals)

I can recognise, find and name a half of an object, shape or quantity

I can recognise, find and name a quarter of an object, shape or quantity

Measurement

I can compare, describe and solve practical problems for:

1. lengths and heights eg long/short, longer/shorter, tall/short, double/half;

2. mass/weight eg heavy/light, heavier than, lighter than;

3. capacity and volume eg full/empty, more than, less than, half, half full, quarter;

4. time eg quicker, slower, earlier, later.

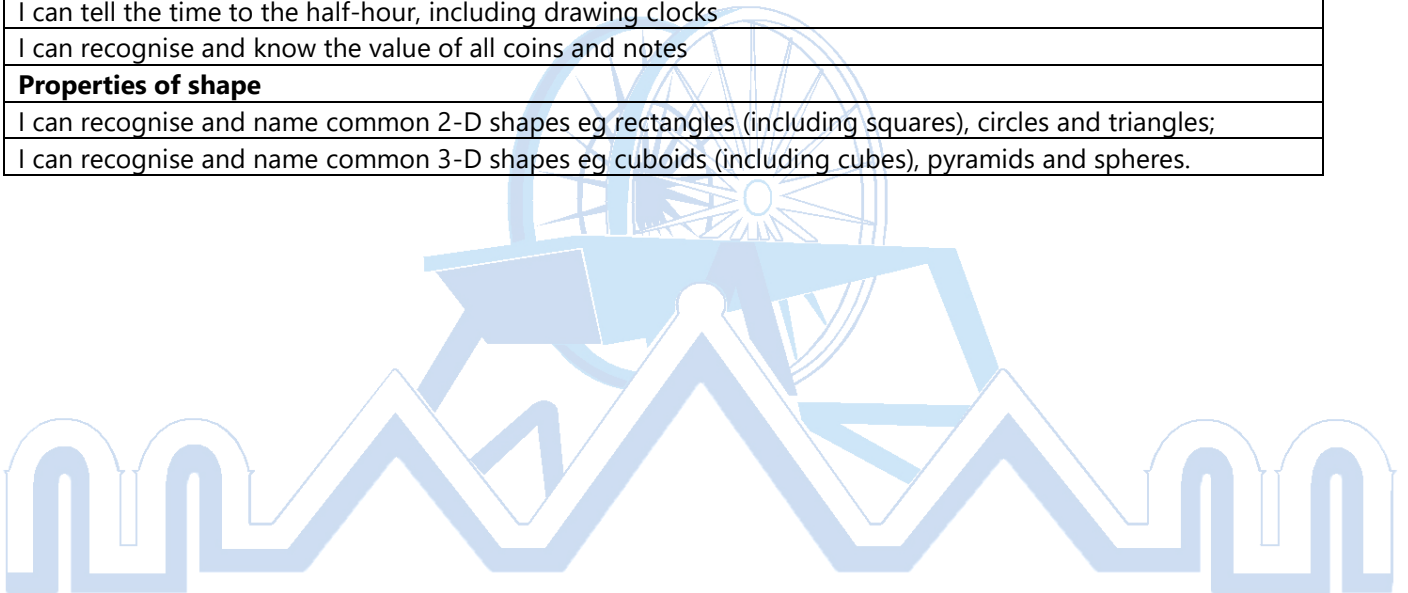
I can tell the time to the half-hour, including drawing clocks

I can recognise and know the value of all coins and notes

Properties of shape

I can recognise and name common 2-D shapes eg rectangles (including squares), circles and triangles;

I can recognise and name common 3-D shapes eg cuboids (including cubes), pyramids and spheres.



BAND 2 Maths

Key Skills:

Number and place value

I can count in steps of 2s, 3s and 5s, and steps of 10, from any number, forward and backward

I can recognise place value in two-digit numbers

I can compare and order numbers up to 100 using $<$, $>$ and $=$

Addition and subtraction

I can recall and use addition and subtraction facts to 20 and 100; fluently up to 20

I can add and subtract mentally and with objects one- and two-digit numbers

I can understand and use the inverse relationship between addition and subtraction

Multiplication and division

I know $2\times$, $5\times$ and $10\times$ tables, including recognising odd & even numbers

I can calculate mathematical statements using \times and \div symbols

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

Fractions (including decimals)

I can recognise, find, name and write $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ of size, shape or quantity

I can write simple fraction facts, e.g. $\frac{1}{2}$ of 6 = 3

Measurement

Solves simple problems in a practical context involving addition and subtraction of money of the same unit including giving change

I can combine amounts of money to make a value, including using \pounds and p symbols

I can tell the time to the nearest 5 minutes, including drawing clocks

Geometry: properties of shape

I can describe properties of 2-D shapes, including number of sides and symmetry

I can describe properties of 3-D shapes, including number of edges, vertices and faces

Geometry: position and direction

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

Statistics

I can interpret and construct simple tables, tally charts and pictograms

I can ask and answer questions about totalling and comparing categorical data

BAND 3 Maths**Key Skills:****Number and place value**

I can count in multiples of 4, 8, 50 and 100

I can compare and order numbers up to 1000

I can recognise the value of each digit in a three-digit number (hundreds, tens, and ones)

I can solve number problems and practical problems involving these ideas

Addition and subtraction

I can add and subtract numbers mentally, including round numbers to HTU

I can add and subtract using standard column method

I can estimate answers to calculations and use the inverse to check answers

Multiplication and division

I know $3\times$, $4\times$ and $8\times$ tables

I can write and calculate mathematical statements for multiplication and division using the multiplication tables that are known including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Fractions (including decimals)

I can count up and down in tenths

I understand that tenths are objectives or quantities divided into ten equal parts

I can compare and order simple fractions

I can recognise and show equivalent fractions

I can find and write fractions of a set of objects

I can add and subtract fractions with common denominators (less than one)

Measurement

I can measure, compare and add and subtract lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

I can measure the perimeter of simple 2-D shapes

I can add and subtract money, including giving change

I can tell and write the time from an analogue clock, including using Roman numerals

I can estimate and read time to the nearest minute

I can identify horizontal, vertical, parallel and perpendicular lines

I can identify whether angles are greater or less than a right angle

Statistics

I can interpret and present data using bar charts, pictograms and tables

BAND 4 Maths**Key Skills:****Number and place value**

I can count in multiples of six, seven, nine, 25 and 1,000

I can count backwards through zero, including negative numbers

I can recognise place value in four-digit numbers

I can round any number to the nearest 10, 100 or 1000

Addition and subtraction

I can solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why

Multiplication and division

I know tables up to 12×12

I use short multiplication method

Fractions (including decimals)

I can recognise and use hundredths

I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$

I can divide one- or two-digit numbers by 10 and 100, using tenths and hundredths

I can round decimals with one decimal place to the nearest whole number

I can compare numbers up to two decimal places

Measurement

Convert between different units of metric measurement, including money

Geometry: properties of shape

Find the area of rectilinear shapes by counting squares

Solve problems converting units of time

Compare and classify shapes, including quadrilaterals and triangles

Complete a simple symmetric figure with respect to a specific line of symmetry.

Geometry: position and direction

Describe positions on a 2-D grid using co-ordinates

Describe translations using a given unit to the left/right and up/down

Statistics

I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

BAND 5 Maths
Key Skills:
Number and place value
I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
Interpret negative numbers in context
Read Roman numerals to 1000, including years
Use rounding to check answers and determine accuracy
Addition and subtraction
I can add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)
I can add and subtract numbers mentally with increasingly large numbers (eg $12,462 - 2,300 = 10,162$)
Multiplication and division
I can identify multiples and factors, including finding factor pairs and common factors
I can recognise and use square and cube numbers, and know the notation
I can use vocabulary: prime numbers, prime factors and composite numbers
I know prime numbers up to 19
I can multiply and divide numbers by 10, 100 or 1000, including decimals
I can use long multiplication for multiplying numbers of up to 4 digits by one or two digits
I can divide numbers using standard written short division
Fractions (including decimals)
I can convert between mixed numbers and improper fractions
I can compare and order fractions whose denominators are multiples of the same number
I can identify, name and write equivalent fractions including tenths and hundredths
I can add and subtract fractions with denominators that are multiples of the same number
I can multiply proper fractions and mixed numbers by whole numbers with support
I can read and write decimal numbers as fractions
I can round decimals with 2 decimal places to whole number or to one decimal place
I can read, write, order and compare numbers with up to 3 decimal places
I can recognise % symbol and explain as a fraction with denominator 100 (parts out of 100)
Measurement
I can understand and use common approximate conversions between metric and imperial
I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
I can calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²)
Geometry: Properties of shape
Identify 3-d shapes from 2-d representations
I can use the properties of rectangles to find missing lengths and angles
I can distinguish between regular and irregular polygons
I know angles are measured in degrees and compare acute, obtuse and reflex angles
I can draw and measure angles to the nearest degree
I can describe and represent the result of a reflection or translation
I can identify angles at a point, in a turn and on a straight line
Statistics
I can complete, read and interpret information in tables, including timetables

BAND 6 Maths**Key Skills:****Place value**

I can round any whole number to a required degree of accuracy

I can use negative numbers to calculate intervals across zero

Calculation

I can multiply a multi-digit number up to four digits by a two-digit whole number using the formal written method of long multiplication

I can divide numbers up to four digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

I can use order of operations to carry out calculations

Fractions

I can use common factors to simplify fractions

I can compare and order fractions of any size

I can add and subtract fractions with different denominators and mixed numbers

I can multiply simple pairs of proper fractions

I can divide proper fractions by whole numbers

I can calculate decimal fraction equivalents for simple fractions

I can multiply a number with up to two decimal places by whole numbers

I can use written division with answers of up to two decimal places

I can recall and use equivalences between fractions, decimals and percentages

Ratio and proportion

I can solve problems involving the calculation of percentages

I can solve problems using ratio using multiplication and division facts

I can solve problems involving proportion, using knowledge of fractions and multiples

Algebra

I can use simple formulae

I can generate and describe linear number sequences

I can express missing number problems algebraically

Measurement

I can calculate the area of parallelograms and triangles

I can calculate and compare volume of cubes and cuboids

I can convert units of measure between smaller and larger units

I can convert between miles and kilometres

Properties of shape

I can find missing angles in triangles, quadrilaterals and regular polygons

I can illustrate and name parts of a circle

Position and direction

I can recognise vertically opposite angles and find missing angles

I can translate shapes on a co-ordinate grid and reflect in the axes

I can describe positions on the full co-ordinate grid

I can construct and interpret pie charts

Statistics

I can calculate and interpret the mean as an average