



YEAR 5 MATHS EXPECTATIONS

Before students leave Year 5 they should be able to...

PLACE VALUE



- Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
- Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
- Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
- Read Roman numerals to 1000 (M) and recognise years written in Roman numerals

HOW TO HELP YOUR CHILD

- Look out for Roman numeral on clocks and read the time
- Read the Roman numeral dates on the end of television programmes
- Take the numbers on car registration plates, rearrange the digits to make the biggest and smallest number or find the biggest number on your journey

CALCULATING



Addition and Subtraction

- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

Multiplication and Division

- Multiply numbers using long multiplication and divide numbers using short division
- Add, subtract, multiply and divide numbers mentally with increasingly large numbers
- Recall all multiplication and division facts to 12 x 12 fluently
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- Identify square and cube numbers, prime numbers, factors and multiples
- Solve problems involving the four operations

HOW TO HELP YOUR CHILD

- Practise rapid recall of the times table and division facts
- Use apps such as '1-minute maths by White Rose Maths' and 'Hit the Button'

MEASUREMENT



- Convert between different units of metric measure
- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- Use formula for area and volume of shape and calculate the volume of cubes and cuboids

Money

- Solve problems involving converting money and calculating change

Time

- Solve problems involving converting units of time, crossing from minutes to hours, involving days, weeks, months and years

FRACTIONS



- Read, write and compare decimal numbers, fractions and percentages
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number
- Identify, name and write equivalent fractions
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

HOW TO HELP YOUR CHILD

- Cook with your child, let them weigh out food and looking at weights and capacities on packaging
- Talk about scaling a recipe up or down
- Help them pay in shops and check change
- Help your child to read the time on different clocks - digital and analogue, discussing times and durations of events
- Help them learn measurement facts, how many g in a kg, ml in a l, mm in a cm, cm in a m, m in a km

SHAPE, POSITION & DIRECTION



- Identify the names and properties of regular and irregular 2-D and 3-D shapes (including their nets)
- Draw and measure angles and identify if they are acute, obtuse and regular
- Identify angles at a point and on a straight line

Position and Direction

- Identify, describe and represent the position of a shape following a reflection or translation

STATISTICS



- Complete, read and interpret information in tables, including timetables

HOW TO HELP YOUR CHILD

- Identify shapes and angles in the environment
- Draw 2-D shapes and make 3-D shapes using modelling materials
- Look at weather tables and other real-life graphs and discuss the data
- Read sports tables
- Look at timetables for flights together