Cayman Prep and High School
Dedicated to Life Long Learning

YEAR 6 MATHS EXPECTATIONS

Before students leave Year 6 they should be able to...

PLACE VALUE

- Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
- Round any number to a required degree of accuracy
- Use negative numbers in context and calculate intervals across zero (add and subtract)

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
- Discuss negative numbers if you see them in the real world

CALCULATING

Addition, Subtraction, Multiplication & Divsion
- Multiply four-digit by two-digit numbers using long multiplication (up to two decimal places)
- Divide a four digit by a two-digit number using long division (interpreting remainders)
- Perform mental calculations, including with mixed operations and large numbers
- Solve problems involving addition, subtraction, multiplication and division
- Identify common factors, common multiples and prime numbers
- Use their knowledge of the order of operations to carry out calculations involving all 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'
- Practise using the formal written methods for calculations

MEASUREMENT

- Use, read, write and convert between metric and imperial units, converting measurements of length, mass, volume and time
- Use formula for area and volume of shape and calculate the volume of cubes and cuboids (cm cubed and m cubed)

Money
- Solve multiple-step word problems involving all four operations and convert between cents and dollars

Time
- Solve multiple-step word problems involving all four operations and convert between hours and minutes

FRACTIONS

- Add, subtract, multiply and divide fractions with different denominators and mixed numbers (giving the answer in its simplest form)
- Recognise equivalent fractions
- Multiply and divide by 10, 100 and 1000 up to three decimal places
- Recall and use equivalences between simple fractions, decimals and percentages
- Multiply one-digit numbers with up to two decimal places by whole numbers

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 them to learn common fraction, decimal, percentage equivalents such as one half = 50% = 0.5
- Talk about percentages or fractions when you see them in shops e.g. 20% off sale

SHAPE, POSITION & DIRECTION

- Calculate unknown angles on straight lines, around a point and in any triangle, quadrilateral and regular polygon
- Illustrate and name parts of a circle
- Calculate the area of parallelograms and triangles
- Draw 2-D shapes using given dimensions and angles
- Recognise, describe and build simple 3-D shapes, including making nets

Position and Direction
- Describe positions on the full coordinate grid (all four quadrants)
- Draw and translate simple shapes on the coordinate plane and reflect them in the axes

STATISTICS

- Interpret and construct pie charts and line graphs and use these to solve problems
- Calculate and interpret the mean as an average

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

For helpful hints on how to help your child with maths visit: whiterosemaths.com/maths-with-michael or contact your child's class teacher.