

# Doha British School – Wakra

## Mathematics Curriculum Road Map

### Intent

- To be able to become fluent in the fundamentals of mathematics
- To be able to recall and apply knowledge rapidly and accurately
- To reason mathematically by being able to follow a line of enquiry, conjecturing relationships and generalisations
- To use the correct mathematical language
- To develop a mathematical proof

### In Year 6...

- I will have a secure understanding of the place value of numbers up to 10,000,000 including negative numbers
- I will be able to use my knowledge of the written methods to solve calculations involving the 4 operations: addition (+), subtraction (-), multiplication (x) and division ( $\div$ )
- I will be able to recall and use equivalences between simple fractions, decimals and percentages
- I will be able to use simple formulae in Algebra and express missing number problems
- I will be able to draw 2D shapes using dimensions and angles and build 3D shapes including making nets

### In Year 5...

- I will have a secure understanding of the place value of numbers up to 1,000,000 including negative numbers
- I will be able to understand and use the following mathematical vocabulary: multiples, factors, prime numbers, prime factors, composite numbers, squared numbers and cubed numbers
- I will be able to write percentages as: a fraction with a denominator of 100 and as a decimal
- I will be able to draw given angles and measure them in degrees ( $^{\circ}$ )
- I will be able to identify 3D shapes from 2D representations

### In Year 4...

- I will have a secure understanding of the place value of each digit in a 2 digit, 3 digit and 4 digit number (1,000s, 100s, 10s and 1s)
- I will be able to recall and use the multiplication and division facts for the 7, 9, 11 and 12 times tables
- I will be able to recognise and write decimal equivalents to any number of tenths, any number of hundredths,  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$
- I will be able to read, write and convert time between an analogue clock, a 12hour digital clock and a 24 hour digital clock
- I will be able to identify lines of symmetry in 2D shapes in different orientations

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### In Year 3...

- I will have a secure understanding of the place value of each digit in 2 digit and 3 digit numbers (100s, 10s and 1s)
- I will be able to recall and use multiplication and division facts for the 3, 4, 6 and 8 times tables
- I will be able to compare and order unit fractions and fractions with a common denominator
- I will be able to estimate and read the time to the nearest minute
- I will be able to draw 2D shapes accurately and make 3D shapes using materials

### In Year 2...

- I will be able to read and write numbers up to 100 in numerals and in words
- I will be able to read, write and understand the following mathematical signs: addition (+), subtraction (-), multiplication (x), division ( $\div$ ) and equals (=)
- I will be able to recall and use the multiplication and division facts for the 2, 5 and 10 times tables
- I will be able to recognise, find, name and write the fractions  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$  and  $\frac{3}{4}$
- I will be able to tell the time to the nearest 5 minutes
- I will be able to identify and describe the properties of 2D and 3D shapes

### In Year 1...

- I will be able to count to 100 (forwards and backwards)
- I will be able to read, write and understand the following mathematical signs: addition (+), subtraction (-) and equals (=)
- I will be able to recognise, find and name one half ( $\frac{1}{2}$ ) and one quarter ( $\frac{1}{4}$ )
- I will be able to tell the time to the hour and half past the hour
- I will be able to recognise and name the common 2D and 3D shapes

### In Reception...

- I will be able to count to 20 (forwards and backwards)
- I will be able to add by counting on and take away by counting back for objects up to 10
- I will be able to double, halve and share objects and numbers
- I will be able to name flat 2D shapes (circle, square, rectangle and triangle) and solid 3D shapes (cube, cuboid, pyramid, sphere and cylinder)

### In Preschool...

- I will be able to count to 10
- I will be able to add one more and take away one less for up to 5 objects
- I will be able to use time vocabulary (yesterday, today, tomorrow)
- I will be able to talk about shapes (round, square, tall, small)