

Holy Family Primary School

Progression in Mathematical Fluency

Year R

Times Tables Multiplication and division fractions	Find and recognise $\frac{1}{2}$ of objects Double objects to find amounts to 10.
Number bonds Addition and subtraction	Number bonds to 5 e.g $1 + 4 = 5$, $2 + 3 = 5$
Number facts	Count up to and back from 20 and order numbers to 20
Measures	
Shape	Begin to use names of 2D and 3D shapes eg squares, circles , cubes, spheres

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Year 1

Times Tables Multiplication and division fractions	Double numbers and quantities up to 10 Find and recognise $\frac{1}{2}$ and $\frac{1}{4}$ of an object, shape or quantity
Number bonds Addition and subtraction	Become familiar and use all number bonds of all numbers to 10 (eg $2+6=8$, $9-3=6$) Become familiar and use all number bonds of all numbers to 20 (eg $8+7=15$, $16-7=9$)
Number facts	Counting up and back in 2s, 5s and 10s Find one more/ one less of a number Find 10 more/10 less of a number Count to and across 100, forwards and backwards, from any number Write numbers from 0 to 20 in numerals and words Recognise odd and even numbers
Measures	Days of the week and months of the year Tell the time to the hour and half past Recognise and know the value of all coins and notes
Shape	Name 2D and 3D shapes

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Year 2

Times Tables Multiplication and division fractions	2, 3, 5, 10 Tables Find and recognise $\frac{1}{3}$ and $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ of an object, shape or quantity
Number bonds Addition and subtraction	Learn and use all number bonds of all numbers to 20 (eg $8+7=15$, $16-7=9$) Work out and use number facts to 100 (eg $30+70=100$, $70=100-30$)
Number facts	Counting up and back in 2s, 3s, 5s from zero and in 10s from any number Order numbers from 0 to 100 Write numbers to 100 in numerals and words
Measures	Number of minutes in an hour and hours in a day Tell the time to 5 minutes, quarter to and quarter past on an analogue clock Know $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ turns, clockwise and anti-clockwise
Shape	Describe properties of 2D and 3D shapes eg how many sides, edges, vertices and faces?

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Year 3

Times Tables Multiplication and division fractions	3, 4, 8 Tables
Number bonds Addition and subtraction	Know all fractions with denominators up to tenths Count up and down in tenths Connect tenths to their decimal equivalents
Number facts	Count in 4s, 8s, 50s and 100s from zero Find 10 or 100 more or less than a given number Order numbers up to 1000 Read and write numbers up to 1000 in words and numerals
Measures	Number of seconds in a minute Read time to the nearest minute using both analogue and digital clocks including Roman numerals Number of days in each month, year and leap year
Shape	Identify right angles and their relationship to turns Identify angles that are greater (obtuse) or smaller (acute) than a right angle Identify horizontal, vertical, perpendicular and parallel lines Measure the perimeter of simple 2D shapes

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Year 4

Times Tables Multiplication and division fractions	All tables to 12
Number bonds Addition and subtraction	<p>Recognise families of equivalent fractions Count up and down in hundredths Know decimal equivalents of tenths and hundredths Recognise decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ Divide a one or two digit number by 10 or 100 Round decimals with one decimal place to nearest whole number Compare numbers up to two decimal places</p>
Number facts	<p>Count in 6s, 7s, 9s, 25s and 1000s Find 1000 more or less than any number Order numbers beyond 1000 Round numbers to nearest 10, 100, 1000 Count backwards through zero to include negative numbers Read Roman numerals to 100 Recognise and use factor pairs of numbers to 100</p>
Measures	<p>Convert km to m. Convert pounds to pence Convert hours to minutes, minutes to seconds, years to months and weeks to days Convert between analogue and digital 12 and 24hr clocks</p>

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Shape	Identify lines of symmetry in 2D shapes Measure and calculate perimeter rectilinear shapes Find the area of rectilinear shape by counting squares Compare and classify geometric shapes including different triangles and quadrilaterals Compare angles Describe and plot positions as co-ordinates in first quadrant
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Year 5

Times Tables Multiplication and division fractions	Multiply and divide whole numbers and decimals by 10, 100 and 1000
Number bonds Addition and subtraction	Convert between mixed numbers and improper fractions Identify equivalent fractions Round decimals with 2 decimal places to nearest whole and one decimal place Order numbers to 3 decimal places Use thousandths Know decimal equivalents of tenths, hundredths and thousandths
Number facts	Read and write numbers to 1,000,000 Round numbers up to 1,000,000 to nearest 10,100,1000,10,000,100,000 Count forwards and backwards in steps of powers of 10 Read Roman numerals to 1000 and recognise years in Roman Numerals Know all factor pairs of a given number Know common factors of 2 numbers
Measures	Convert between km/m/cm/mm, g/kg and l/ml Use approximate equivalents between metric and imperial units

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Shape	Measure perimeter of composite rectangular shapes Measure area of rectangles using square centimetres and metres Estimate volume and capacity Measure an angle in degrees using a protractor Know how many degrees in a whole, half, $\frac{1}{4}$ and $\frac{3}{4}$ turn Understand reflection and translation
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Year 6

Times Tables Multiplication and division fractions	Find common denominators to help solve problems Compare and order fraction including fractions bigger than 1 Multiply fractions and express answer in simplest form Divide proper fractions by whole numbers Find and use simple fraction, decimal and percentage equivalents Calculate percentages
Number bonds Addition and subtraction	Read, write and order numbers to 10,000,000 Round all numbers to a required degree of accuracy Calculate across zero BIDMAS Use simple formulae using symbols and letters
Number facts	Read, write and order numbers to 10,000,000 Round all numbers to a required degree of accuracy Calculate across zero BIDMAS Use simple formulae using symbols and letters
Measures	Convert between km/m/cm/mm, g/kg and l/ml to 3 decimal places Convert between miles and kilometres Calculate the mean Link percentages to degrees in pie charts Understand scale factor

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Shape	Calculate the area of triangles and parallelograms Understand units of speed eg mph Identify parts of a circle: diameter, radius and circumference Calculate volume of cuboids in cubic cm/m/mm/km Draw 2D shapes using given angles and dimensions Build simple 3D shapes using nets Compare and classify all geometric shapes Use co-ordinates in all quadrants Translate and reflect shapes
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