

SUMMER TERM MATHEMATICS OVERVIEW – YEAR 5

Daily Mathematics Lesson – 1 hour (one/two lessons each week to be a discrete arithmetic lesson)

1 x 30 minute discrete times tables lesson – Y5 target - 99 challenge/Platinum (TTRS/use of tackling times table cards for early morning work)

BLOCKS	NATIONAL CURRICULUM OBJECTIVES KEY OBJECTIVES	SMALL STEPS	READY TO PROGRESS CRITERIA	Linked Step	
Geometry (shape) 3 weeks	❖ identify 3-D shapes, including cubes and other cuboids, from 2-D representations ❖ know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles ❖ draw given angles, and measure them in degrees ❖ identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°), other multiples of 90°	• Understand and use degrees • Classify angles • Estimate angles • Measure angles up to 180° • Draw lines and angles accurately • Calculate angles around a point • Calculate angles on a straight line • Lengths and angles in shapes • Regular and irregular polygons • 3-D shapes	5G-1 Compare angles, estimate and measure angles in degrees ($^\circ$) and draw angles of a given size.	• Classify angles • Estimate angles • Measure angles up to 180° • Draw lines and angles accurately	End of block assessment
Geometry (Position and Direction) 2 weeks	❖ identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	• Read and plot coordinates • Problem solving with coordinates • Translation • Translation with coordinates • Lines of symmetry • Reflection in horizontal and vertical lines			End of block assessment

Decimals 3 weeks	❖ read and write decimal numbers as fractions [for example, $0.71 = 71/100$] ❖ recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents ❖ round decimals with two decimal places to the nearest whole number and to one decimal place ❖ read, write, order and compare numbers with up to three decimal places ❖ use all four operations to solve problems involving measure [for example, money]	• Use known facts to add and subtract decimals within 1 • Complements to 1 • Add and subtract decimals across 1 • Add decimals with the same number of decimal places • Subtract decimals with the same number of decimal places • Efficient strategies for adding and subtracting decimals • Decimal sequences • Multiply by 10, 100 and 1000 • Divide by 10, 100 and 1000 • Multiply and divide decimals – missing values			End of block assessment
Number (negative numbers) 2 weeks	❖ count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 ❖ count forwards and backwards with positive and negative whole numbers, including through zero	• Understand negative numbers • Count through zero in 1s • Count through zero in multiples • Compare and order negative numbers • Find the difference			End of block assessment
Measurement: Conversions 2 weeks	❖ 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 ❖ solve problems involving converting between units of time ❖ use all four operations to solve problems involving measure	• Kilograms and kilometres • Millimetres and millilitres • Convert units of length • Convert between metric and imperial units • Convert units of time • Calculate with timetables	5NPV-5 Convert between units of measure, including using common decimals and fractions.	• Convert units of length • Convert between metric and imperial units • Convert units of time	End of block assessment

Measurement (Volume) 1 week	❖ estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water] ❖ use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	• Cubic centimetres • Compare volume • Estimate volume • Estimate capacity			End of block assessment
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