



Greystoke
Primary School

Enabling our children to reach their full potential

2017/18 Mathematics Medium Term plans and textbook mapping.

Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn	NUMBER:PLACE VALUE			MENTAL /MULTIPLICATION METHODS		NUMBER: FORMAL METHODS		FRACTIONS		NUMBER: DECIMALS		GEOMETRY: SHAPE		MEASURES:	
Spring	NUMBER:PLACE VALUE		MENTAL /MULTIPLICATION METHODS		NUMBER: FORMAL METHODS		FRACTIONS		STATISTICS						
Summer	GEOMETRY: SHAPE		NUMBER:PLACE VALUE		NUMBER: MULTIPLICATION FACTS		NUMBER: DECIMALS		FRACTIONS		GEOMETRY: SHAPE/ROMAN NUMERALS		STATISTICS		

Lesson Breakdown and Textbook Mapping

Year 4 Autumn Term

Topic	Week	National Curriculum Objective	Maths No Problem/Focus/NCETM mastery pages.
Place Value	1, 2 & 3	<ul style="list-style-type: none"> recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Compare and order numbers up to 1000 identify, represent and estimate numbers using different representations read and write numbers to at least 1000 in numerals and in words solve number problems and practical problems involving these ideas. Count up and down in tenths; Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 	
Mental calculations /multiplication	4 & 5	<ul style="list-style-type: none"> count in multiples of 6, 7, 9, 25 and 1000 Recall multiplication and division facts for multiplication tables up to 12×12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects. 	
Number: all 4 operations	6 & 7	<ul style="list-style-type: none"> add and subtract numbers with up to 4 digits using the efficient written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout 	
Fractions	8 & 9	<ul style="list-style-type: none"> recognise and show, using diagrams, families of common equivalent fractions count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions 	

		<p>where the answer is a whole number</p> <ul style="list-style-type: none"> • identify, name and write equivalent fractions of a given fraction, including tenths and hundredths • add and subtract fractions with the same denominator. • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout 	
Decimals	10 & 11	<ul style="list-style-type: none"> • recognise and write decimal equivalents of any number of tenths or hundredths • Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths • Round decimals with one decimal place to the nearest whole number • Compare numbers with the same number of decimal places up to two decimal places • solve simple measure and money problems involving fractions and decimals to two decimal places. 	
Geometry/Shape	12 & 13	<ul style="list-style-type: none"> • Compare and classify geometric shapes, including quadrilaterals and triangles, based on properties and sizes • identify acute and obtuse angles and compare and order angles up to two right angles by size • identify lines of symmetry in 2-D shapes presented in different orientations • Complete a simple symmetric figure with respect to a specific line of symmetry. 	
Measures:	14	<ul style="list-style-type: none"> • Convert between different units of measure; estimate, compare and calculate different measures, including money in pounds and pence • estimate, compare and calculate different measures, including money in pounds and pence • read, write and convert time between analogue and digital 12 and 24-hour clocks • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 	
Measures	15	<ul style="list-style-type: none"> • measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • Find the area of rectilinear shapes by counting squares 	