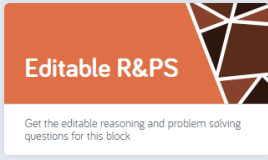
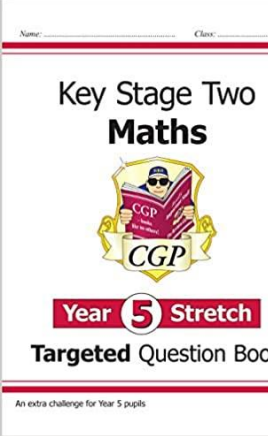


	Essentials Planning	DfE core guidance	NCETM PD spine materials	Challenge
5LS1	Place Value and Rounding of Large Numbers	<p>Not covered in DfE Core Guidance until year 6 as part of up to 10 million</p> <p><b>6NPV-2</b> Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.</p>	<p>Not covered in DfE Core Guidance until year 6 as part of up to 10 million</p> <p>1.30 Composition and calculation: numbers up to 10,000,000  <a href="https://www.ncetm.org.uk/classroom-resources/primm-1-30-composition-and-calculation-numbers-up-to-10-000-000/">https://www.ncetm.org.uk/classroom-resources/primm-1-30-composition-and-calculation-numbers-up-to-10-000-000/</a></p>	<p><b>Option 1:</b> Click on relevant White Rose link in previous column e.g.  <a href="https://resources.whiterosemaths.com/resources/year-5/autumn-block-1-place-value/">https://resources.whiterosemaths.com/resources/year-5/autumn-block-1-place-value/</a> and click on editable reasoning and problem solving:</p> 
5LS3	Place Value of Numbers with up to Three Decimal Places	<p><b>5NPV-1</b> Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.</p> <p><b>5NPV-2</b> Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning</p>	<p>1.23 Composition and calculation: tenths  <a href="https://www.ncetm.org.uk/classroom-resources/primm-1-23-composition-and-calculation-tenths/">https://www.ncetm.org.uk/classroom-resources/primm-1-23-composition-and-calculation-tenths/</a>                      1.24 Composition and calculation: hundredths and thousandths  <a href="https://www.ncetm.org.uk/classroom-resources/primm-1-24-composition-and-calculation-hundredths-and-thousandths/">https://www.ncetm.org.uk/classroom-resources/primm-1-24-composition-and-calculation-hundredths-and-thousandths/</a></p>	<p><b>Option 2:</b> Recommended books:</p> 
		<p><b>5NPV-3</b> Reason about the location of any number with up to 2 decimals places in the linear number system,</p>		

Year 5 long term plan mapping document

		including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each	
5LS4	<b>Multiply and Divide by 10, 100 and 1,000</b>	<b>5MD-1</b> Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size	2.13 Calculation: multiplying and dividing by 10 or 100 <a href="https://www.ncetm.org.uk/classroom-resources/primm-2-13-calculation-multiplying-and-dividing-by-10-or-100/">https://www.ncetm.org.uk/classroom-resources/primm-2-13-calculation-multiplying-and-dividing-by-10-or-100/</a>
5LS2	<b>Interpret Negative Numbers</b>		
5LS40	<b>Roman Numerals</b>		
5LS5	<b>Properties of Number – Multiples, Factors and Common Factors</b>	<b>5MD-2</b> Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.	2.9 Times tables:7 and patterns within or across times tables <a href="https://www.ncetm.org.uk/classroom-resources/primm-2-09-times-tables-7-and-patterns-within-across-times-tables/">https://www.ncetm.org.uk/classroom-resources/primm-2-09-times-tables-7-and-patterns-within-across-times-tables/</a>  2.21 Factors, multiples, prime numbers and composite numbers <a href="https://www.ncetm.org.uk/classroom-resources/primm-2-21-factors-multiples-prime-numbers-and-composite-numbers/">https://www.ncetm.org.uk/classroom-resources/primm-2-21-factors-multiples-prime-numbers-and-composite-numbers/</a>
5LS6	<b>Prime and Composite Numbers</b>		
5LS7 5LS8	<b>Multiply and Divide Mentally Solve Problems Involving Knowledge of Key Facts</b>	<b>5NF-2</b> Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).	
5LS9	<b>Add and Subtract Using a Range of Strategies</b>		
5L10	<b>Add and Subtract Using Formal Written Methods</b>		
5LS11	<b>Formal Written Method for Multiplication</b>	<b>5MD-3</b> Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.	2.14 Multiplication: partitioning leading to short multiplication <a href="https://www.ncetm.org.uk/classroom-resources/primm-2-14-multiplication-partitioning-leading-to-short-multiplication/">https://www.ncetm.org.uk/classroom-resources/primm-2-14-multiplication-partitioning-leading-to-short-multiplication/</a>



**Option 3:** NCETM primary assessment materials for Year 5 which have a master with greater depth column

<https://www.ncetm.org.uk/classroom-resources/assessment-materials-primary/>



**Option 4:** NRICH– use the

Year 5 long term plan mapping document

5LS12	<b>Formal Written Method of Short Division</b>	<b>5MD-4</b> Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context.	2.15 Division: partitioning leading to short division <a href="https://www.ncetm.org.uk/classroom-resources/primm-2-15-division-partitioning-leading-to-short-division/">https://www.ncetm.org.uk/classroom-resources/primm-2-15-division-partitioning-leading-to-short-division/</a>
5LS29	<b>Formal Methods for Division</b>		
5LS30	<b>Multiplication in Increasingly Complex Problems Strategies for Multiplication and Division (Mental and Written)</b>		
5LS20	<b>Area</b>	<b>5G-2</b> Compare areas and calculate the area of rectangles (including squares) using standard units.	2.16 Multiplicative contexts: area <a href="https://www.ncetm.org.uk/classroom-resources/primm-2-16-multiplicative-contexts-area-and-perimeter-1/">https://www.ncetm.org.uk/classroom-resources/primm-2-16-multiplicative-contexts-area-and-perimeter-1/</a>
5LS16	<b>Problem Solving – All Four Operations</b>		
5LS13	<b>Equivalent Fractions</b>	<b>5F-2</b> Find equivalent fractions and understand that they have the same value and the same position in the linear number system	3.7 Finding equivalent fractions and simplifying fractions <a href="https://www.ncetm.org.uk/classroom-resources/primm-3-07-finding-equivalent-fractions-and-simplifying-fractions/">https://www.ncetm.org.uk/classroom-resources/primm-3-07-finding-equivalent-fractions-and-simplifying-fractions/</a>  VIDEOS  Upper Key Stage 2 fractions video lessons, lessons 1 – 9 <a href="https://www.ncetm.org.uk/classroom-resources/vl-upper-key-stage-2-fractions-video-lessons/">https://www.ncetm.org.uk/classroom-resources/vl-upper-key-stage-2-fractions-video-lessons/</a>
5LS14	<b>Compare and Order Fractions</b>		
5LS15	<b>Adding and Subtracting Fractions</b>		
5LS17	<b>Multiply Fractions by Whole Numbers</b>	<b>5F-1</b> Find non-unit fractions of quantities.	3.6 Multiplying whole numbers and fractions <a href="https://www.ncetm.org.uk/classroom-resources/primm-3-06-multiplying-whole-numbers-and-fractions/">https://www.ncetm.org.uk/classroom-resources/primm-3-06-multiplying-whole-numbers-and-fractions/</a>
5LS18	<b>Fraction Problem Solving</b> <i>Incorporate problem solving into</i>		

National Curriculum tracking document to locate relevant material

<https://docs.google.com/spreadsheets/d/1j6RPbZA1i0tdJfDZtwBjNtwIQE-1NcmtHYgQidJrvDM/edit#gid=694489868>

Year 5 long term plan mapping document

	apply and challenge questions in other units		
5LS22	Percentages	<p><b>5F-3</b> Recall decimal fraction equivalents for <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math> and <math>\frac{1}{10}</math>, and for multiples of these proper fractions.</p>	<p>3.10 Linking fractions, decimals and percentages  <a href="https://www.ncetm.org.uk/classroom-resources/primm-3-10-linking-fractions-decimals-and-percentages/">https://www.ncetm.org.uk/classroom-resources/primm-3-10-linking-fractions-decimals-and-percentages/</a></p> <p>Upper Key Stage 2 linking fractions, decimals and percentages video lessons, lessons 1 – 4  <a href="https://www.ncetm.org.uk/classroom-resources/vl-upper-key-stage-2-linking-fractions-decimals-and-percentages-video-lessons/">https://www.ncetm.org.uk/classroom-resources/vl-upper-key-stage-2-linking-fractions-decimals-and-percentages-video-lessons/</a></p>
5LS23	Problem Solving – Percentages	<p><b>5NPV-4</b> Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.</p>	<p>1.23 Composition and calculation: tenths  <a href="https://www.ncetm.org.uk/classroom-resources/primm-1-23-composition-and-calculation-tenths/">https://www.ncetm.org.uk/classroom-resources/primm-1-23-composition-and-calculation-tenths/</a></p> <p>1.24 Composition and calculation: hundredths and thousandths  <a href="https://www.ncetm.org.uk/classroom-resources/primm-1-24-composition-and-calculation-hundredths-and-thousandths/">https://www.ncetm.org.uk/classroom-resources/primm-1-24-composition-and-calculation-hundredths-and-thousandths/</a></p>
		<p><b>5NPV-5</b> Convert between units of measure, including using common decimals and fractions</p>	<p>3.10 Linking fractions, decimals and percentages  <a href="https://www.ncetm.org.uk/classroom-resources/primm-3-10-linking-fractions-decimals-and-percentages/">https://www.ncetm.org.uk/classroom-resources/primm-3-10-linking-fractions-decimals-and-percentages/</a></p>
5LS19	Converting Units of Measure		
5LS32	Conversion of Imperial and Metric Units of Measure		
5LS21	Volume and Capacity		
5LS24	3-D Shapes from 2-D Representations		
5LS25	Reflection and Translation		
5LS26	Perimeter		2.16 Multiplicative contexts: area and perimeter 1

Year 5 long term plan mapping document

			<a href="https://www.ncetm.org.uk/classroom-resources/primm-2-16-multiplicative-contexts-area-and-perimeter-1/">https://www.ncetm.org.uk/classroom-resources/primm-2-16-multiplicative-contexts-area-and-perimeter-1/</a>
5LS27	<b>Estimate, Compare, Measure and Draw Angles</b>	5G–1 Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size.	
5LS28	<b>Identify Unknown Angles</b>		
5LS31	<b>Solving Problems involving Scaling by Simple Fractions and Rates</b>		
5LS33	<b>Fractions, Decimals and Percentages Problem Solving</b> LEAVE OUT – incorporate problem solving into apply and challenge questions in other units		
5LS34	<b>Reading Timetables and Calculating with Time</b> drip into maths meetings		
5LS35	<b>Solve Problems involving the Four Operations</b> Incorporate problem solving into apply and challenge questions in other units		
5LS36	<b>Distinguish between Regular and Irregular Polygons</b>		
5LS37	<b>Use Properties of Rectangles</b>		
5LS38	<b>Statistics – Solve Comparison, Sum and Difference Problems using Information in a Line Graph</b> Incorporated into Science lessons		
5LS39	<b>Statistics – Interpreting and Evaluating Information Presented in Charts and Tables</b> Incorporated into Science lessons		

Year 5 long term plan mapping document

--	--	--	--	--