

Year 7 Maths Pi Learning Journey 2020-21

Week	Date	Key Constructs	Topics	Assessment
1	07.09.20	Data: analysing and representation Data: collecting and organising	<ul style="list-style-type: none"> Find information from tables, pictograms, bar and bar-line charts. Display data using bar and bar-line charts. Organise data using tally charts, frequency tables and grouped bar charts. 	Unit 1 Analysing and displaying data
2	14.09.20			
3	21.09.20			
4	28.09.20	Written Methods Place value and rounding Types of number	<ul style="list-style-type: none"> Different methods for addition and subtraction. Round to nearest 10 Multiplying, recognize multiples and square numbers. Find square roots using a calculator. Division, division using times tables. Use approximation to estimate division calculations. 	Unit 2 Calculating
5	05.10.20			
6	12.10.20			
7	19.10.20			
HALF TERM				
8	02.11.20	Sequences and functions Algebraic manipulation	<ul style="list-style-type: none"> Find outputs of simple functions. Describe simple functions using words or symbols. Simplify expressions. Write expressions given a description in words. 	Unit 3 Expressions, functions and formulae
9	09.11.20			
10	16.11.20	Graphs Coordinates and transformations Data: analysing and representation	<ul style="list-style-type: none"> Read information from real-life graphs Draw graphs to show change over time. Write and plot the coordinates Plot graphs of simple functions. Draw line graphs to show relationships between quantities. Read values from science graphs. 	Unit 4 Graphs <i>(not assessed individually)</i>
11	23.11.20			
12	30.11.20			
13	07.12.20		Revision for End of Term Assessment End of Term assessment, RAP and a Christmas Activity	EOT test Unit 1-4
14 (½ week)	14.12.20			
CHRISTMAS				
15	04.01.21	Types of number Written methods Place value and rounding	<ul style="list-style-type: none"> Understand the priority of operations, rules of multiplication. Use the operation keys on a calculator. Recognise multiples of 2, 5, 10 and 25. Multiply 3-digit numbers by a single digit Round numbers to the nearest 100 and 1000. Divide 3-digit numbers by a single digit. Solve problems involving multiplication and division. Recognise and use multiples, factors and primes. Find common factors and common multiples. Work out the HCF and LCM of two numbers. 	Unit 5 Factors and multiples
16	11.01.21			
17	18.01.21			
18	25.01.21	Place value and rounding Measures and construction Sequences and functions	<ul style="list-style-type: none"> Estimate, and choose suitable units, to measure length, mass and capacity. Draw and measure lines to the nearest mm and cm. Read a variety of scales. Record estimates to a suitable degree of accuracy Understand, compare, order and use decimals for tenths and hundredths, including in measures. Convert between different units of measure. Recognise and extend number sequences by counting in decimals. Round decimals to nearest whole number and nearest tenth. Use a calculator to solve word problems involving money. 	Unit 6 Decimals and measures
19	01.02.21			
20	08.02.21			

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HALF TERM				
21	22.02.21	Angles and geometric proof Place value and rounding Measures and construction	<ul style="list-style-type: none"> Estimate, and choose suitable units, to measure length, mass and capacity. Draw and measure lines to the nearest mm and cm. Read a variety of scales. Record estimates to a suitable degree of accuracy Understand, compare, order and use decimals for tenths and hundredths, including in measures. Convert between different units of measure. Recognise and extend number sequences by counting in decimals. Round decimals to nearest whole number and nearest tenth. Use a calculator to solve word problems involving money. 	Unit 7 Angles and Lines <i>(not assessed individually)</i>
22	01.03.21			
23	08.03.21			
24	15.03.21		Revision for End of Term Assessment End of Term assessment and RAP Maths Magic	EOT test Unit 5-7
25	22.03.21			
26 (½ week)	29.03.21			
EASTER				
27	19.04.21	Polygons and polyhedral Coordinates and transformations Perimeter, area and volume	<ul style="list-style-type: none"> Identify triangles, squares and rectangles and their properties. Describe the line symmetry of triangles, quadrilaterals and other shapes. Solve problems using line symmetry. Describe rotational symmetry. Identify polygons. Understand the line and rotational symmetry of rotational polygons. Find the perimeter of squares, rectangles and regular polygons. 	Unit 8 Measuring and shapes
28	26.04.21			
29	04.05.21 (BH)	Fractions Written methods Percentages	<ul style="list-style-type: none"> Comparing fractions Equivalent fractions Calculating with fractions Adding and subtracting fractions Introducing percentages FINANCE: Finding percentages 	Unit 9 Fractions, decimals and percentages
30	10.05.21			
31	17.05.21		Revision for EOYE	
32	24.05.21			
HALF TERM				
33	07.06.21		EOYE RAP Farm Project	EOYE
34	14.06.21			
35	21.06.21			
36	28.06.21	Coordinates and transformations	<ul style="list-style-type: none"> Reflection Translation Rotation Congruency 	Unit 10 Transformations
37	05.07.21			
38	12.07.21			
39	19.07.21			