

PEARSON/EDXCEL SCHEMES OF WORK ADAPTED FOR FOREST HILL SCHOOL (KS3: EXPLORER)

YEAR 7			KS3 Maths Progress		PI 1 and PI 3	
	TERM	UNIT / LESSON	STEPS PARTIAL	STEPS TEN	OBJECTIVES	
W/L	AUTUMN		1	4th (grade 2)		
1	04/09/2017	1.1 Tables and pictograms	1st (grade 1)	3rd (grade 2)	Find information from tables and pictograms.	
2	11/09/2017	1.2 Bar charts	2nd (grade 1)	3rd (grade 2)	Find information from bar and bar line charts. Display data using bar and bar line charts.	
3	18/09/2017	1.3 Grouped data	2nd (grade 1)	3rd (grade 2)	Organise data using a tally chart. Understand and use frequency tables. Understand and draw a grouped bar chart.	
			INVESTIGATION: KS3 DATA COLLECTION			
		1.4 Mode and modal class	3rd (grade 2)	3rd (grade 2)	Find the mode of a set of data. Find the modal class of a set of data.	
		1.5 Range and median	2nd (grade 1)	4th (grade 2)	Find the range and median of a set of data. Compare sets of data using their range, mode and median.	
		1.6 Mean	3rd (grade 2)	4th (grade 2)	Calculate the mean of a set of data.	
4	25/09/2017	PROBLEM-SOLVING ACTIVITIES				
AUTUMN			2	3rd (grade 2)		
5	02/10/2017	2.1 Adding	1st (grade 1)	2nd (grade 1)	Add numbers together in different ways. Round to the nearest 10.	
6	09/10/2017	2.2 Subtracting	1st (grade 1)	2nd (grade 1)	Approximate before adding. Subtract numbers in different ways. Approximate before subtracting.	
		2.3 Multiplying	1st (grade 1)	3rd (grade 2)	Multiply numbers.	
					RICH TASK 2: FACTORS & MULTIPLES GAME	
					RICH TASK 16: HOW MANY POLAR BEARS?	
					Recognise multiples.	
					Recognise square numbers.	
					Find roots of square numbers on a calculator.	
		2.4 Dividing	1st (grade 1)		Divide one number by another. Use times tables to help you divide. Use approximation to estimate division calculations.	
			INVESTIGATION: OPPOSITE CORNERS			
			INVESTIGATION: PARTITIONING			
		2.5 Multiplying and dividing by 10, 100 and 1000	3rd (grade 2)	4rd (grade 2)	Multiply and divide by 10, 100 and 1000.	
		2.6 Using the four operations	1st (grade 1)	3rd (grade 2)	Use addition, subtraction, multiplication and division. Solve simple ratio and proportion problems.	
		2.7 Positive and negative numbers	1st (grade 1)	3rd (grade 2)	Use simple negative numbers. Continue a sequence.	
7	16/10/2017	RICH TASK 14: WHY IS 1089 SO SPECIAL?				
			PROBLEM-SOLVING; REVISION		HALF TERM TEST	

TERM		UNIT / LESSON	STEPS FORM	STEPS TIN	LEARNING OBJECTIVES
SPRING		5 Factors and multiples	1st (grade 1)	3rd (grade 2)	
15	01/01/2018	5.1 Number rules and divisibility	1st (grade 1)	3rd (grade 2)	Understand the priority of operations. Understand the rules of multiplication. Use the operation keys on a calculator. Recognise multiples of 2, 5, 10 and 25. Work out multiples.
16	08/01/2018	RICH TASK 1: POSITIVE DIFFERENCES			
		5.2 Multiples	1st (grade 1)	2nd (grade 1)	Multiply 3-digit numbers by a single digit. Round numbers to the nearest 100 and 1000.
		5.3 Multiplication	2nd (grade 1)	3rd (grade 2)	Divide 3-digit numbers by a single digit. Decide whether you can divide a number by 2, 5, 9 or 10. Begin to identify factors of numbers.
		5.4 Division	1st (grade 1)	3rd (grade 2)	Solve problems involving multiplication and division. Use a calculator to solve multiplication and division problems.
		5.5 Solving problems	1st (grade 1)	2nd (grade 1)	Find factors of numbers. Recognise prime numbers.
		5.6 Factors and primes	2nd (grade 1)	3rd (grade 2)	Recognise and use multiples, factors and primes. Find common factors and common multiples. Work out the HCF and LCM of two numbers. Work out if a number is divisible by 3, 4 or 6.
		5.7 Common factors and multiples	2nd (grade 1)	3rd (grade 2)	
17	15/01/2018	PROBLEM-SOLVING ACTIVITIES			
SPRING		6 Decimals and measures	1st (grade 1)	5th (grade 3)	
18	22/01/2018	6.1 Estimates and measures	1st (grade 1)	3rd (grade 2)	Estimate, and choose suitable units, to measure length, mass and capacity. Draw lines to the nearest mm and measure lines to the nearest cm. Read a variety of scales. Record estimates to a suitable degree of accuracy. Read and write numbers in figures and words. including in measures.
19	29/01/2018				
		6.2 Decimal numbers	1st (grade 1)	3rd (grade 2)	Read and interpret scales using decimals. Order metric measurements. Convert between different units of measure. Read and interpret scales. Record measurements.
		RICH TASK 28: DECIMAL ARITHMETIC			
		6.3 Metric units	2nd (grade 1)	3rd (grade 2)	Recognise and record number sequences by counting in decimals. Extend mental methods of calculation, to include decimals. Round decimals to nearest whole number and nearest tenth. Use a calculator and interpret the display in different contexts (decimals). Consolidate and extend mental calculation methods, including decimals. Multiply and divide decimal numbers. Use a calculator to solve word problems involving money. Round amounts on a calculator to 2 decimal places.
		6.4 Adding and subtracting decimals	2nd (grade 1)	3rd (grade 2)	
		RICH TASK 5: NUMBER SHACK			
		6.5 Rounding	2nd (grade 1)	3rd (grade 2)	
		6.6 Multiplying and dividing decimals	3rd (grade 2)	3rd (grade 2)	
		6.7 FINANCE: Calculating with money	3rd (grade 2)	5th (grade 3)	
20	05/02/2018	PROBLEM-SOLVING; REVISION			HALF-TERM TEST
SPRING		7 Angles and lines	1st (grade 1)	3rd (grade 2)	
21	19/02/2018	7.1 Right angles and lines	1st (grade 1)	3rd (grade 2)	Know a right angle is 90 degrees. Recognise quarter, half and three-quarter turns. Recognise parallel and perpendicular lines. Use compass points. Recognise acute and obtuse angles. Measure acute angles. Label lines and angles. Recognise acute, obtuse and reflex angles. Measure obtuse angles. Estimate the size of angles. Draw acute angles. Find missing angles on a straight line. Find missing angles round a point.
22	26/02/2018				
		7.2 Measuring angles 1	2nd (grade 1)	2nd (grade 1)	
		RICH TASK 10: HOW MANY ANGLES?			
		7.3 Measuring angles 2	3rd (grade 2)	3rd (grade 2)	
		7.4 Drawing and estimating angles	2nd (grade 1)	3rd (grade 2)	
		7.5 Putting angles together	3rd (grade 2)	3rd (grade 2)	
23	05/03/2018	PROBLEM-SOLVING ACTIVITIES			
SPRING		8 Measuring and shapes	1st (grade 1)	4th (grade 2)	
24	12/03/2018	8.1 Shapes	1st (grade 1)	3rd (grade 2)	Identify triangles, squares and rectangles. Recognise the properties of triangles, squares and rectangles. 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. Calculate the perimeter of shapes made from rectangles. Solve problems involving the perimeter of squares and rectangles. Use metric units to measure area. Calculate the area of squares and rectangles.
25	19/03/2018	INVESTIGATION: FLAGGING			
		8.2 Symmetry in shapes	2nd (grade 1)	4th (grade 2)	
		8.3 More symmetry	3rd (grade 2)	4th (grade 2)	
		8.4 Regular polygons	1st (grade 1)	3rd (grade 2)	
		8.5 Perimeter	1st (grade 1)	3rd (grade 2)	
		8.6 Area	2nd (grade 1)	3rd (grade 2)	
26	26/03/2018	PROBLEM-SOLVING; REVISION			END OF TERM TEST

STEPS REFER TO THE 12-STEP PEARSON MODEL					
TERM	UNIT / LESSON	STEPS PART 1	STEPS YES	LEARNING OBJECTIVES	
	SUMMER	9 Fractions, decimals and percentages	1st (grade 1)	3rd (grade 2)	
27	16/04/2018	9.1 Comparing fractions	1st (grade 1)	3rd (grade 2)	Order fractions.
28	23/04/2018	9.2 Equivalent fractions	1st (grade 1)	3rd (grade 2)	Use fractions to describe parts of shapes.
		9.3 Calculating with fractions	1st (grade 1)	3rd (grade 2)	Identify equivalent fractions. Simplify fractions by cancelling. Change an improper fraction to a mixed number.
		9.4 Adding and subtracting fractions	1st (grade 2)	3rd (grade 2)	Calculate simple fractions of quantities.
		9.5 Introducing percentages	2nd (grade 1)	3rd (grade 2)	Add and subtract simple fractions.
		9.6 FINANCE: Finding percentages	3rd (grade 2)	3rd (grade 2)	Understand percentage as 'the number of parts per 100'. Write a percentage as a fraction or decimal. Calculate percentages.
29	30/04/2018	PROBLEM-SOLVING ACTIVITIES		RICH TASK 7: FRACTION ARRANGEMENT	
	SUMMER P.1	10 Transformations	1st (grade 1)	5th (grade 3)	
		10.1 Reflection	1st (grade 1)	3rd (grade 2)	Reflect a shape in a mirror line.
		RICH TASK 18: ENTRAPMENT			
30	07/05/2018	10.2 Translation	2nd (grade 1)	3rd (grade 2)	Translate a shape.
		RICK TASK 4: WILL THEY MEET?			
31	14/05/2018	10.3 Rotation	3rd (grade 2)	4th (grade 2)	Draw and describe rotations.
		10.4 STEM: Congruency	1st (grade 1)	4th (grade 2)	Identify congruent shapes.
	P.1	10.5 10.1 Quadrilaterals	5th (grade 3)	5th (grade 3)	Identify the properties of quadrilaterals.
32	21/05/2018	PROBLEM-SOLVING ACTIVITIES		RICH TASK 13: HOW MANY QUADRILATERALS?	
33	04/06/2018	REVISION FOR END OF YEAR TESTS			
34	11/06/2018	REVISION FOR END OF YEAR TESTS			
35	18/06/2018				
36	25/06/2018	END OF YEAR TESTS: NON-CALCULATOR & CALCULATOR			
37	02/07/2018	FINANCIAL MATHS			
38	09/07/2018	FINANCIAL MATHS			
39	16/07/2018	FEEDBACK FROM END OF YEAR TESTS			
40	23/07/2018	FEEDBACK FROM END OF YEAR TESTS			