Highgate Primary Year 6 Maths Curriculum

WALT: We Are Learning To WAP: We Are Practising

Number
Measurement
Geometry
Statistics
Algebra
Ratio and Proportion

Autumn 2: Our Island History

Week	Unit	National Curriculum objectives Possible lesson objectives	White Rose Maths (WRM) 'small steps'	Models and images representing number Key vocabulary	Reasoning (in addition to WRM questions)	Fluency	
I	Number						
	Fractions • use common factors to simplify fractions			I For extract the contract of	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M. M. Marker	
		multiples to express fractions in	 Equivalent fractions Simplify fractions Fractions on a number line 	Fraction wall, number line	Which is larger 1 / 3 or 2 / 5? Explain how you know. Odd one out. Which is the odd one out in each of these collections of 4 fractions ³ / ₄ 9/12 26/36 18/24 4/20 1/5 6/25 6/30 Why? Always, sometimes, never true that: 20ths can be simplified to 8ths Halves can't be simplified Tenths can be simplified to fifths Fifteenths can be simplified to quarters? Use examples to prove your answers.	MyMiniMaths	
2	> I • add and subtrated denominations	order fractions, including fractions act fractions with different s and mixed numbers, using the uivalent fractions	 Compare and order denominator Compare and order numerator Add and subtract fractions 	Cuisenaire rods	Ordering Sam put these fractions in order starting with the smallest. Are they in the correct order? Thirty-three fifths Twenty-three thirds Forty-five sevenths How do you know? Another and another Write down two fractions which have a difference of I/2 and another, and another, Write down 2 fractions with a total of 3 4/5 and another,	MyMiniMaths	

				Odd one out 1/3 + 1/8 1/2 + 3/4 3/5 + 3/10 3/4 + 5/12 Explain your answer.		
3	 multiply simple pairs of proper fractions, writing the answer in its simplest form divide proper fractions by whole number 	 Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers 	-	Continue the pattern 1/3 ÷ 2 = 1/6 1/6 ÷ 2 = 1/12 1/12 ÷ 2 = 1/24 What do you notice? 1/2 x 1/2 = 1/4 x 1/2 = 1/8 x 1/2 = What do you notice? Explaining Write a step-by-step guide to multiplying two fractions. Can you write one that covers all possible types of fractions? Now do the same for dividing any fraction by a whole number. Make sure it covers all possibilities.	MyMiniMaths	
4	 add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form divide proper fractions by whole number WALT calculate a fraction of an amount 	Four rules with fractions Fraction of an amount	Bar model	What do you notice? 8/5 of 25 = 40 5/4 of 16 = 20 7/6 of 36 - 42 Can you write similar statements? The answer is 1/8, what is the question (involving fractions / operations)? Working backwards I think of a number. When I divide it by 3/4, the answer is 12. What was my number? I think of a number. When I multiply it by 4/5, the answer is 20. What was my number?	MyMiniMaths	
5	Geometry Position and Direction					
	 describe positions on the full coordinate grid (all four quadrants) 	First quadrantFour quadrants	Geoboard	Working backwards	MyMiniMaths	

	draw and translate simple shapes on the coordinate plane, and reflect them in the axes	TranslationsReflections		Two triangles have the following coordinates: Triangle A: (3, 5) (7, 5) (4, 7) Triangle B: (3, 1) (7, 1) (4, 3) Describe the translation of triangle A to B and then from B to A. NRICH Ten Hidden Squares NRICH Treasure Hunt				
6	Number Decimals							
	 identify the value of each digit in numbers given to three decimal places multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply one-digit numbers with up to two decimal places by whole numbers 	 Three Decimal Places Multiply 10, 100, 1000 Divide 10, 100, 1000 Multiply decimals by integers 	Base 10, Gattegno chart, place value counters	Working backwards What needs to be added to 6.543 to give 7? What needs to be added to 3.582 to give 5? One thousandth of my money is 3 lp. How much do I have? What do you notice? Circle the two decimals which are closest in value to each other. 0.9 0.09 0.99 0.1 0.01 What do you notice? Undoing I multiply a number with three decimal places by a multiple of 10. The answer is approximately 3.21. What was my number? What did I multiply by? When I divide a number by 1000 the resulting number has the digit 6 in the units and tenths and the other digits are 3 and 2 in the tens and hundreds columns. What could my number have been?	MyMiniMaths			
7	 use written division in cases where the answer has up to two decimal places solve problems, which require answers to be rounded to specified degrees of accuracy 	 Divide decimals by integer Division to solve problems Decimals as fractions Fractions to decimals 	Number line, fraction wall	Prove it What goes in the missing box? 184 ÷ 12 = 157 385 ÷ 18 = 212.5 332 ÷ 8 = 421.5 38 x7 = 178.6 Prove it	MyMiniMaths			