Highgate Primary Year 6 Maths Curriculum

WALT: We Are Learning To WAP: We Are Practising

Number
Measurement
Geometry
Statistics
Algebra
Ratio and Proportion

Spring 2: The Swinging 60s

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	Measurement Area, perimeter and volume (2)								
	area and volucalculate the acalculate, estinand cuboids u	en it is possible to use formulae for me of shapes area of parallelograms and triangles mate and compare volume of cubes ising standard units, including cubic nd cubic metres and extending to	 Area of a parallelogram Volume - counting cubes Volume of a cuboid 	Bar model	Visualising Jess has 24 cubes which she builds to make a cuboid. Write the dimensions of cuboids that she could make. List all the possibilities. Drawing Draw a net for a cuboid that has a volume of 24 cm3 NRICH Cylinder Cutting	MyMiniMaths			
2	Ratio and proportion								
	quantities who using integer solve problem	ns involving the relative sizes of two ere missing values can be found by multiplication and division facts ns involving unequal sharing and g knowledge of fractions and	Use ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio	Counters, bar model, Cuisenaire	True or false Last season, for every 3 goals that Dan scored, Anil scored 2 goals. For each statement, say if it is possible or impossible: In total, Dan and Anil scored 18 goals. Anil scored 10 goals. Dan scored 15 goals and Anil scored 6 goals. In total, Dan and Anil scored 35 goals. How Many Ways Ben has 3 times as many conkers as Holly. In total, Ben and Holly have less than 25 conkers. Holly has more than 3	MyMiniMaths			

			conkers. How many conkers does Ben have? How many possible answers are there? NRICH Pumpkin Pie Problem NRICH Orange Drink				
3	solve problems involving similar shapes where the scale factor is known or can be found	Using scale factors Calculating scale factors Ratio and proportion problems	- Unpicking A recipe needs to include three times as much apple than peach. The total weight of apples and peaches in a recipe is 700 grammes. How much apple do I need? NRICH Mixing Lemonade (online) NRICH Tray Bake	MyMiniMaths			
4	Statistics						
	 interpret and construct pie charts and line graphs and use these to solve problems illustrate and name parts of circles including radius, diameter and circumference and know that the diameter is twice the radius 	Read and interpret line graphs Draw line graphs Use line graphs to solve problems Circles	Is this true or false? Convince me. Make up your own 'true/false' statement about a pie chart. Drawing conclusions This graph shows the speeds of Nada and Amy in the race. Describe the difference between their races. Which cyclist do you think finished first - Nada or Amy? NRICH Graphing Number Patterns	MyMiniMaths			
5	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average 	 Read and interpet pie charts Pie charts with percentages Draw pie charts The mean 	- Missing information The mean score in six test papers in a spelling test of 20 questions is 15. Five of the scores were 13 12 17 18 16 What was the missing score? Create a questions Make up a set of five numbers with a mean of 2.7 NRICH Birdwatch NRICH Presenting the Project	MyMiniMaths			
6	Geometry Properties of shape (I)		<u> </u>				

 find unknown angles in any triangles, 	Measure with a	-	Possibilities	MyMiniMaths
quadrilaterals and regular polygons	protractor		One angle at the point where the	
 recognise angles where they meet at a point, are 	 Introduce angles 		diagonals of a rectangle meet is 36	
on a straight line, or are vertically opposite, and	 Calculate angles 		degrees. What could the other angles	
find missing angles	 Vertically opposite 		be? Convince me.	
 find unknown angles in any triangles, quadrilaterals and regular polygons 	angles • Angles in a triangle			
 recognise angles where they meet at a point, are 			NRICH Olympic Turns NRICH Triangles in Circles (easy,	
on a straight line, or are vertically opposite, and			then hard!)	
find missing angles			their hard:)	