Admiralty Primary School Primary 5 Mathematics Lesson Focus

Whole Numbers to 10 millions Pupils will learn how to recognise and write numbers up to 10 million.					
Key Concepts	Learning Objectives	Maths Vocabulary			
Place values	 Count in 100 thousands up to 1 million Rename 10 hundred thousands or 1000 thousands as 1 million Read and write numbers within 10 million in numerals and in words Recognise number notation and the respective place value of each digit Find the whole given another part within 10 million Find the missing part given the whole and the part within 10 million 	 Rename, place value Estimate 			
Pupils will learn how to multipl	Four Operations of Whole Numbers Pupils will learn how to multiply and divide whole numbers by 10, 100 and 1000 and perform operations based on a certain order.				
Key Concepts	Learning Objectives	Maths Vocabulary			
Order in which arithmetic operations are carried out	 Multiply and divide a whole number by 10, 100 and 1000 Multiply and divide a whole number by tens, hundreds and thousands Perform mixed operations involving addition and subtraction without brackets Perform mixed operations involving multiplication and division without brackets Perform a mix of the 4 operations with and without brackets 	 Multiply, divide, product, quotient Order of operation Estimate 			

	Fractions and Division Pupils will learn about division of whole numbers as fractions, conversions of fractions to decimals and vice versa.				
	Key Concepts	Learning Objectives	Maths Vocabulary		
•	Division of whole numbers as a reverse process is similar to finding a fraction of a set Fractions can be converted to decimals and vice versa	 Divide a whole number by a whole number and represent the answer as a fraction Convert fractions to decimals 	 Proper fractions, improper fractions, mixed numbers Convert 		
	Operations of Fractions Pupils will learn to work on arithmetic operations involving fractions.				
	Key Concepts	Learning Objectives	Maths Vocabulary		
•	Fractions may be added or subtracted when they have the same denominators Multiplying proper fractions results in a fraction smaller than its multiplicands Multiplying improper fractions may result in a fraction equal to or greater than one of its multiplicands Multiplying mixed numbers result in a fraction greater than its multiplicands	 Add and subtract proper fractions / mixed numbers Find the fraction of a set and a remainder Multiply a proper fraction / an improper fraction by a whole number Multiply a proper fraction / an improper fraction by a proper fraction / an improper fraction Multiply a mixed number by a whole number 	 Proper fractions, improper fractions, mixed numbers Convert Fraction of a remainder 		

Area of Triangles Pupils will learn to associate the base and height of a triangle with finding the area of triangles.				
Key Concepts	Learning Objectives	Maths Vocabulary		
Area of a triangle is half the area of a rectangle	 Identify the base and height of a triangle Find the area of a triangle Relate how the height and base of a triangle affects the area of the triangle Find the areas of composite figures involving squares, rectangles and triangles 	 Base, height, perpendicular distance, triangle, related rectangle Area, composite figures 		
Volume Pupils will learn to find the volumes of cubes and cuboids. Pupils will learn to find the volumes of liquid in cubes and cuboids.				
Key Concepts	Learning Objectives	Maths Vocabulary		
 Volume is the amount of space and object occupies Volume is measured in cubic unit (non-standard unit) Volume is measured in m³, cm³, ℓ and ml (standard unit) Volume of a cuboid/cube can be found based on multiplying its three sides (length, breadth and height) 	 Find the volume of the solids in cubic units Draw cubes and cuboids on isometric grids Draw different views of solids on square grids State the volume of solid figures in cm³ and m³ Find the volume of cubes and cuboids Find the volume of water in rectangular containers 	 Volume, cube, cuboid, unit cube, solid figure Capacity Cubic unit, cubic metre (m³), cubic centimetre (cm³), litre (ℓ) and millilitre (ml) 		

Pı	Decimals Pupils will learn multiply and divide decimals, convert measurements in decimal form and solve problems involving 4 operations				
	Key Concepts	Learning Objectives		Maths Vocabulary	
•	Addition, subtraction, multiplication and division of decimals	 Multiply and divide a decimal by 10, 100 and 1000 Multiply and divide a decimal by tens, hundreds and thousands Convert measurements of length, mass and volume in decimals from a larger unit to a smaller unit and vice versa Convert measurements in compound units to decimals and vice versa 	•	Decimals Fractions, numerator, denominator Place values, tenths, hundredths, thousandths Convert	
	Rate				
	Key Concepts	Learning Objectives		Maths Vocabulary	
•	A rate compares two different quantities that have two different units of measurements The idea of proportion is used to solve rate-related problems	 Express rate as one quantity per unit of another quantity Find the total amount given the rate (or step-rate) and another quantity Find the number of units given the rate and another quantity Identify the rate, total amount or the number of units from given examples 	•	Rate, step-rate, unit rate Per Unitary method, proportion	

	Percentage Pupils will learn about percentage and its use in GST, discounts and interest rates.				
	Key Concepts	Learning Objectives		Maths Vocabulary	
•	A percentage is a ratio that compares a quantity against 100 Fractions and decimals can be expressed as percentages and vice versa	 Express a fraction / decimal as a percentage Express a fraction / decimal as a percentage by finding its equivalence with denominator 100 Express a fraction / decimal as a percentage by multiplying by 100% Express a percentage as a decimal / fraction in its simplest form Find the quantity given a percentage part and the whole Find the percentage part of a quantity given a part of a whole and the whole Calculate the GST or percentage discounts based on a given amount Calculate the interest given by banks for a sum of money deposited for a year 	•	Percentage Part, whole Unitary method GST, discount, interest rate	
	Angles Pupils will learn about different properties of angles and how to find unknown angles by applying the properties learned.				
	Key Concepts	Learning Objectives		Maths Vocabulary	
• • •	Sum of angles on a straight line is 180° Vertically opposite angles are equal Sum of angles at a point is 360°	 State that the sum of angles on a straight line is 180° State that vertically opposite angles are equal Identify the vertically opposite angle given a marked angle State that the sum of angles at a point is 360° Find unknown angles using various properties of angles 	•	Angles on a straight line Vertically opposite angles Angles at a point	

	Properties of Triangles				
	Pupils will learn about the different types of triangles and the properties of each type of triangles. Pupils will learn how to draw triangles and find unknown angles in triangles.				
	Key Concepts	Learning Objectives	Maths Vocabulary		
•	A triangle has 3 sides and 3 vertices Triangles are classified by their angles and side lengths Sum of angles in a triangle is 180°	 State the properties of an equilateral triangle, an isosceles triangle and a right-angled triangle State the properties of an acute-angled triangle and obtuse-angled triangle. Recognise and name a type of triangle by its properties and attributes Draw triangles given some measurements State that the sum of angles in a triangle is 180° Find unknown angles of a triangle 	 Equilateral triangle, isosceles triangle, right-angled triangle Acute-angled triangle, obtuse- angled triangle 		
	Parallelogram, Rhombus and Trapezium Pupils will learn about the properties of the parallelogram, rhombus and trapezium. Pupils will learn how to draw these 4-sided figures and find unknown marked angles in these figures.				
	Key Concepts	Learning Objectives	Maths Vocabulary		
•	Properties related to a parallelogram, a rhombus and a trapezium	 State the properties of a parallelogram, a rhombus and a trapezium Recognise and name 4-sided figures by its properties and attributes Draw parallelograms, rhombuses and trapeziums given some measurements Find unknown angles of a 4-sided figure 	 Parallelogram, rhombus, trapezium 4-sided figures, quadrilaterals Properties, angles 		