Admiralty Primary School

Primary 3 Mathematics

Lesson Focus

Semester 1

Numbers to 10 000 – Pupils will le Key Concepts	Learning Objectives	Math Vocabulary
 Counting relates to finding how many Manipulatives with tens as the base are used to model numbers The relative value of a number can be known through comparing it with other 	 Count in hundreds/thousands Read and write numbers in numerals and in words Recognise number notation and the respective value and place value of each digit Relate how big numbers are used in real life Compare and order numbers within 10 000 Identify patterns in number sequences 	 Digit Value Stands for Thousands, hundreds, tens, ones compare, greater than, smaller than, greatest, smallest increasing order, decreasing order even, odd

Key Concepts	Learning Objectives	Math Vocabula ry	
 Parts are added to make up a whole A whole is the sum of different parts Comparing numbers results in one number being more or less than the other number by a certain value 	 Add up and subtract up to 4-digit numbers with and without renaming use a variety of mental strategies (number bond, making tens, breaking down numbers, using patterns etc) for mental calculation involving addition and subtraction of two 2-digit numbers Draw part-whole or comparison models to illustrate concept of addition and subtraction when solving word problems Add and subtract 2-digit numbers mentally 	 Sum and difference Addition (with and without renaming) Subtraction (with and without renaming) Part-whole model Comparison model 	

Key Concepts	Learning Objectives	Math Vocabulary
 Money is used as a measure of value or worth Money is used exchange for something that is worth the monetary amount 	 Add and subtract money in whole numbers and in decimal notation Real-life math application of addition and subtraction in money 	 Prices, cost, value Amount of change, amount left, amount spent Dollars, cents More expensive, cheaper
Multiplication Tables of 6, 7, 8 an tables of 6, 7, 8 an	d 9 – Pupils will learn how to skip-count, mult	iply and divide numbers within the multiplicatio
Key Concepts	Learning Objectives	Math Vocabulary
 Multiplication is conceptualised from repeated addition of equal- sized groups of objects Division is conceptualised as equal sharing or equal-sized grouping of objects 	 Relate multiplication concept as equal-sized groups of 6, 7, 8 and 9 Relate division concept as equal-sized groups of 6, 7, 8 and 9 objects Compute the multiplication and division facts of 6, 7, 8 and 9 mentally 	 Multiplication (with and without renaming) Division (with and without renaming) Groups As many as times as many (eg. Twice is two times as many) twice
Multiplication and Division – Pup	ils will learn how to multiply and divide.	
Key Concepts	Learning Objectives	Math Vocabulary
 Multiplication is conceptualised as an equal-sized grouping of objects multiplied a number of times 		 Multiplication (with and without renaming) Division (with and without renaming) Each

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multiplied a number of times	•	Divide a 2-digit or 3-digit number by a 1-digit	٠	Each
 Division is conceptualised as 		number without or with renaming (with or	•	Equal
equal sharing or equal-sized		without a remainder)	•	Product
grouping of objects	•	Solve word problems involving the four		
		operations		

Key Concepts	Learning Objectives	Math Vocabulary
Application of 4-operations like addition, subtraction, multiplication, and division in problem sums.	 Identify and understand the use of different types of model drawings, including part-whole models and comparison models. Apply problem-solving strategies and heuristics such as guess-and-check, pattern recognition, and working backwards to solve mathematical problems effectively. 	 Part-whole Comparison Sum, Difference Total
	organize information using bar graphs and in	
Key Concepts	Learning Objectives	Math Vocabulary
 Data can be organized and presented for interpretation using bar graphs Bar graphs are used for comparison of data across categories 	 Read and interpret data from bar graphs using different scales on axis 	 symbol Data Scale Represent Category Vertical and horizontal bar graphs Composite bar graph
Angles – Pupils will learn the cor	cept of angles and how to compare angles.	
Key Concepts	Learning Objectives	Math Vocabulary
 An angle is the measure of the 	 Identify if an angle is a right angle, an acute angle, or an obtuse angle 	Right angleAcute angle

Key Concepts	Learning Objectives	Math Vocabulary
 Perpendicular lines are lines that are at right angles to each other Parallel lines do not meet and the distance between them is always the same 	 Identify and name a pair of perpendicular lines and parallel lines using the symbol "⊥" and "//" respectively Draw perpendicular lines and parallel lines on a square grid Use a set square and a ruler to construct perpendicular lines and parallel lines 	 Vertical, horizontal Right angle Perpendicular line Parallel line
Fractions – Pupils will learn to rec Key Concepts	cognise parts of a whole in their equivalent fo Learning Objectives	rms. Math Vocabulary
 A fraction is seen as the relationship between one or more equal parts of a whole Equivalent fractions are fractions of equal sizes Fractions of different sizes can be compared when they have a common 'base' 	 Divide a given fraction into smaller equal parts to get an equivalent fraction Find equivalent fractions through multiplying the numerator and denominator by the same number Express a fraction in its simplest form Compare and order fractions Add and subtract fractions 	 Equal parts Fractions (like fractions, unlike fractions, equivalent fractions) Numerator and denominator Part-whole Simplest form Equivalent

Admiralty Primary School

2021 Primary 3 Mathematics

Lesson Focus

Semester 2

Key Concepts	Learning Objectives	Math Vocabulary
 Assign a numerical value to an attribute (length, mass or volume) of an object to show the size or amount of the object Standard units are used as measurement of the attributes of an object 	 Estimate and measure length in centimetres, metres and kilometres Estimate and measure mass in grams and kilograms Measure volume of liquid in millilitres and litres Convert between units of measurement for length, mass and volume kilometres (km) and metres (m) metres (m) and centimetres (cm) kilograms (kg) and grams (g) litres (<i>l</i>) and millilitres (ml) 	 Height, distance, length centimetres, metres and kilometres Mass, Heavier, lighter, heaviest, lightest grams, kilograms Volume and capacity millilitres, litres
rea and Perimeter – Pupils will le Key Concepts	earn how to define perimeter and area, and he Learning Objectives	ow to use the formula for calculating them. Math Vocabulary
 Perimeter is the distance around a 	Find the perimeter and area of a closed figure	Space
 closed figure Area is the amount of space taken	 Measure area in square units (units²), square centimetres (cm²) and square metres (m²) 	AreaLength, Breadth
up by the closed figure	Compare the perimeters and areas of different	Perimeter

Key Concepts	Learning Objectives	Math Vocabulary	
Time is a form of measurement to describe the sequence of events and how long they take	 Measure time in seconds Read and write time in the 12-hour and 24-hour clock Find the starting time, finishing time or duration involving the 24-hour clock 	 Time Seconds 12-hour clock, 24-hour clock Starting time, finishing time Arrival time, departure time Duration 	