Admiralty Primary School

2023 Primary 4 Mathematics

Lesson Focus

<u>Semester 1</u>

Numbers To 100 000 – Pupils will	learn how to recognise, write and compare n	numbers up to 100 000.
Key Concepts	Learning Objectives	Maths Vocabulary
 Counting relates to finding how many Comparing numbers shows the relative values of numbers 	 Recognise number notation and the respective place value of each digit Compare and order numbers within 100 000 Identify patterns in number sequences 	
Factors and Multiples – Pupils wil	ll learn about factors and multiples, and how	they are related.
Key Concepts	Learning Objectives	Maths Vocabulary
 Factors are the numbers that are multiplied to get a product Dividing the product by a factor leaves no remainder Multiples are the numbers obtained by multiplying factors 	 List the factors of a given whole number up to 100 Find the common factors and multiples of two given whole numbers List up to the first 12 multiples of a given whole number 	

Fo	our Operations of Whole Numbe	rs – Pupils will learn how to multiply and divi	de up to 4-digit numbers.
	Key Concepts	Learning Objectives	Maths 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	 Multiply and divide numbers up to 4 digits by a 1-digit number, and numbers up to 3 digits by a 2-digit number Solve non-routine word problems involving the four operations 	
Fr ar	actions – Pupils will learn abound fractions of a set.	t mixed numbers, improper fractions, compar	rison of fractions, adding and subtracting fractions
	Key Concepts	Learning Objectives	Maths Vocabulary
•	A mixed number is the sum of a whole number and a proper fraction An improper fraction is a fraction with a numerator equal to or greater than the denominator A fraction may be expressed as a part of a set of objects	 Convert between mixed numbers and improper fractions Compare and order fractions involving mixed numbers and/or improper fractions Add or subtract unrelated fractions Solve problems involving fraction of a set 	

Angles – Pupils will learn how to name angles, measure and draw angles using a protractor, and directions using an 8-point compass.

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Key Concepts	Learning Objectives	Maths Vocabulary
• An angle is a measure of the amount of turning made between two straight lines about a point	 Name an angle (e.g. ∠ABC or ∠b) Measure and draw an angle using a protractor Relate ¹/₄ turn, ¹/₂ turn, ³/₄ turn and a complete turn to a turn of 90°, 180°, 270° and 360° respectively Solve problems involving the directions based on an 8-point compass 	

Squares and Rectangles – Pupils will learn the properties of squares and rectangles, how to draw them, and how to find unknown sides and angles.

Key Concepts	Learning Objectives	Maths Vocabulary
 A square is a four-sided figure with 4 equal sides and 4 right angles A square is a special type of rectangle 	 State the properties of a square and a rectangle Draw a square or rectangle on a square grid, and with the aid of a set square or protractor without a square grid Find unknown sides and angles of a square and a rectangle 	
P3 Topics – Area & Perimeter, Perpendicular & Parallel Lines, Bar Graphs, Time		

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Lesson Focus

<u>Semester 2</u>

Decimals – Pupils will learn to rea	cimals – Pupils will learn to read write and compare decimals up to 3 decimals, and round decimals to 2 decimal places.	
Key Concepts	Learning Objectives	Maths Vocabulary
 Place value concepts involving tenths, hundredths and thousandths 	 Express a fraction with a denominator 10, 100 or 1000 as a decimal Express decimals as fractions State the place value of each digit in a number up to 3 decimal places Compare and order decimals up to thousandths Round a decimal to the nearest whole number, or up to 2 decimal places Solve word problems involving mixed numbers, fractions and decimals 	 Decimals Fractions, numerator, denominator, simplest form Place values, tenths, hundredths, thousandths Compare, smaller than, greater than, more than, less than Rounding

Four Operations of Decimals – Pu	ipils will learn how to add, subtract, multiply	and divide decimals using the standard algorithm.
Key Concepts	Learning Objectives	Maths Vocabulary
 Addition – combining quantities, finding missing whole or comparing quantities Subtraction – removing quantities, finding missing part or comparing quantities Multiplication – repeated addition or quantity is x times as many as another Division – equal sharing or equal grouping of items 	 Add and subtract decimals up to 2 decimal places with and without renaming Add and subtract decimals with 1 decimal place mentally Estimate the sum and difference between 2 decimals Solve up to 2-step word problems involving addition and/or subtraction of decimals Multiply and divide decimals up to 2 decimal places by a 1-digit whole number Estimate the product in multiplication/quotient in division of decimals by a whole number Round the quotients to 1 or 2 decimal places after dividing Solve up to 2-step word problems involving the 4 operations of decimals 	 Decimals Place values Add, subtract, multiply, divide Estimate

Symmetry – Pupils will learn what	t symmetric figures are (figures that have one	e or more lines of symmetry), and how to construct
and draw symmetric figures and	patterns.	
Key Concepts	Learning Objectives	Maths Vocabulary
 Symmetry is based on the concept of reflection, that is, a symmetric figure can be divided into 2 halves where each half is the mirror image of the other 	 Identify if a figure or letter is symmetric Identify lines of symmetry and state the number of lines of symmetry in a figure/pattern Complete a symmetric figure/pattern on a square grid given half the symmetric figure/pattern Use shapes to complete symmetric figures Complete a symmetric pattern by shading a required number of squares 	 Symmetry Symmetric figure Line of symmetry Mirror image Halves
Area and Perimeter – Pupils will I and how to find the areas and per	earn how to find the unknown sides of square imeters of composite figures made up of squ	es and rectangles given their areas or perimeters, lares and rectangles.
Key Concepts	Learning Objectives	Maths Vocabulary
 Area is the amount of surface space taken up by a closed figure Perimeter is the distance around a closed figure 	 Find the unknown side of a square given its area or perimeter Find the unknown side of a rectangle given its area or perimeter and one of the sides Identify the shapes that make up a composite figure, and find the area and/or perimeter of the composite figure Solve non-routine problems involving the area and/or perimeter of overlapping squares and/or rectangles 	 Area Perimeter Composite figure Related rectangle Overlapping area

Key Concepts	Learning Objectives	Maths Vocabulary
Data can be organized in tables or graphical forms to convey information	 Present, read, and interpret data from tables Discuss how data is collected and displayed in a bar graph Read and interpret data from line graphs Identify the differences and suitability of presenting data between a bar graph and a line graph Recognise and explain why a bar graph and line graph may be misleading 	 Data Tally Table Row and column Bar graph Line graph Labels, category Horizontal scale, vertical scale
ime – Pupils will learn to measu	re time in seconds and read time in the 24-h	our clock format.
Key Concepts	Learning Objectives	Maths Vocabulary
Time is a form of measurement	 Measure time in seconds Read and write time in the 12-hour and 24-hour clock Find the starting time, finishing time or 	 Time Seconds 12-hour clock, 24-hour clock Starting time, finishing time