## Admiralty Primary School 2022 Primary 4 Mathematics Lesson Focus

## Semester 1

Key Concepts	Learning Objectives	Maths Vocabulary
Counting relates to finding how many Comparing numbers shows the relative values of numbers	<ul> <li>Recognise number notation and the respective place value of each digit</li> <li>Compare and order numbers within 100 000</li> <li>Identify patterns in number sequences</li> </ul>	
actors and Multiples – Pupils wil	I learn about factors and multiples, and how	they are related.
Key Concepts	Learning Objectives	Maths Vocabulary

Key Concepts	Learning Objectives	Maths Vocabulary
<ul> <li>Multiplication is conceptualised from repeated addition of equal-sized groups of objects</li> <li>Division is conceptualised as equal sharing or equal-sized grouping of objects</li> </ul>	<ul> <li>Multiply and divide numbers up to 4 digits by a 1-digit number, and numbers up to 3 digits by a 2-digit number</li> <li>Solve non-routine word problems involving the four operations</li> </ul>	
Fractions – Pupils will learn abou	t mixed numbers, improper fractions, compa	rison of fractions, adding and subtracting fractions
Key Concepts	Learning Objectives	Maths Vocabulary
<ul> <li>A mixed number is the sum of a whole number and a proper fraction</li> <li>An improper fraction is a fraction with a numerator equal to or greater than the denominator</li> <li>A fraction may be expressed as a part of a set of objects</li> </ul>	<ul> <li>Convert between mixed numbers and improper fractions</li> <li>Compare and order fractions involving mixed numbers and/or improper fractions</li> <li>Add or subtract unrelated fractions</li> <li>Solve problems involving fraction of a set</li> </ul>	

Key Concepts	Learning Objectives	Maths Vocabulary
<ul> <li>An angle is a measure of the amount of turning made between two straight lines about a point</li> </ul>	<ul> <li>Name an angle (e.g. ∠ABC or ∠b)</li> <li>Measure and draw an angle using a protractor</li> <li>Relate ½ turn, ½ turn, ¾ turn and a complete turn to a turn of 90°, 180°, 270° and 360° respectively</li> <li>Solve problems involving the directions based on an 8-point compass</li> </ul>	
•	s will learn the properties of squares and rectangles	s, how to draw them, and how to find unkno
Squares and Rectangles – Pupils sides and angles. Key Concepts	Learning Objectives	s, how to draw them, and how to find unkno Maths Vocabulary

## Admiralty Primary School 2021 Primary 4 Mathematics Lesson Focus

## Semester 2

Key Concepts	Learning Objectives	Maths Vocabulary
<ul> <li>Place value concepts involving tenths, hundredths and thousandths</li> </ul>	<ul> <li>Express a fraction with a denominator 10, 100 or 1000 as a decimal</li> <li>Express decimals as fractions</li> <li>State the place value of each digit in a number up to 3 decimal places</li> <li>Compare and order decimals up to thousandths</li> <li>Round a decimal to the nearest whole number, or up to 2 decimal places</li> <li>Solve word problems involving mixed numbers, fractions and decimals</li> </ul>	<ul> <li>Decimals</li> <li>Fractions, numerator, denominator, simplest form</li> <li>Place values, tenths, hundredths, thousandths</li> <li>Compare, smaller than, greater than, more than, less than</li> <li>Rounding</li> </ul>

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

Symmetry – Pupils will learn what and draw symmetric figures and p		e or more lines of symmetry), and how to construct
Key Concepts	Learning Objectives	Maths Vocabulary
		<ul> <li>Symmetry</li> <li>Symmetric figure</li> <li>Line of symmetry</li> <li>Mirror image</li> <li>Halves</li> </ul> es and rectangles given their areas or perimeters,
Key Concepts	imeters of composite figures made up of squ Learning Objectives	Maths Vocabulary
<ul> <li>Area is the amount of surface space taken up by a closed figure</li> <li>Perimeter is the distance around a closed figure</li> </ul>	<ul> <li>Find the unknown side of a square given its area or perimeter</li> <li>Find the unknown side of a rectangle given its area or perimeter and one of the sides</li> <li>Identify the shapes that make up a composite figure, and find the area and/or perimeter of the composite figure</li> <li>Solve non-routine problems involving the area and/or perimeter of overlapping squares and/or rectangles</li> </ul>	<ul> <li>Area</li> <li>Perimeter</li> <li>Composite figure</li> <li>Related rectangle</li> <li>Overlapping area</li> </ul>

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