

Context of Lessons:

- Weekly assessment on number bonds and times tables.
- Three lessons adapted from White Rose to cover key skills, concepts
- One lesson application, reasoning and problem solving skills
- One lesson mental arithmetic

Autumn Term

White Rose Maths	Place Value	Addition, Subtraction, Multiplication and Division	Fractions	Position and Direction
	<ul style="list-style-type: none"> - Recap Numbers to 10,000 - Recap Numbers to 100,000 - Recap Numbers to a million - Numbers to 10 million - Compare and order any numbers - Recap Round numbers to 10, 100 and 1,000 - Round any number - Activity Negative numbers - Negative numbers 	<ul style="list-style-type: none"> - Recap Add whole numbers with more than 4 digits (column method) - Recap Subtract whole numbers with more than 4 digits (column method) - Recap Inverse operations (addition and subtraction) - Recap Multi-step addition and subtraction problems - Add and subtract integers - Recap Multiply 4-digits by 1-digit - Recap Multiply 2-digits (area model) - Recap Multiply 2-digits by 2-digits - Recap Multiply 3-digits by 2-digits - Multiply up to a 4-digit number by a 2-- digit number - Recap Divide 4-digits by 1-digit - Recap Divide with remainders - Short division - Division using factors - Long division - Recap Factors - Common factors and multiples - Primes to 100 - Squares and cubes - Order of operations - Mental calculations and estimation - Reason from known facts 	<ul style="list-style-type: none"> - Recap Equivalent fractions - Simplify fractions - Recap Improper fractions to mixed numbers - Recap Mixed numbers to improper fractions - Fractions on a number line - Compare and order (denominator) - Compare and order (numerator) - Add and subtract fractions (1) - Activity Add and subtract fractions activity (denominators are not - Recap Add mixed numbers - Add fractions - Recap Subtract mixed numbers - Subtract fractions - Mixed addition and subtraction - Multiply fractions by integers - Multiply fractions by fractions - Divide fractions by integers - Four rules with fractions - Fraction of an amount - Fraction of an amount - find the whole 	<ul style="list-style-type: none"> - The first quadrant - Four quadrants - Translations - Reflections

<p>National Curriculum Links</p>	<ul style="list-style-type: none"> - I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. - I can identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places. 	<ul style="list-style-type: none"> - I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. - I can solve problems involving addition, subtraction, multiplication and division. - I can multiply numbers up to 4 digits by a 2 digit whole number. - I can divide numbers up to 4 digits by a 2 digit whole number. - I can calculate mentally using the simplest calculation. - I can associate a fraction with division and calculate decimal fraction equivalents. - I can identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places. 	<ul style="list-style-type: none"> - I can + and – fractions with different denominators and mixed numbers, using the concept of equivalent fractions. - I can solve fraction problems involving all four operations. - I can recognise the relationship between fractions, decimals and percentages. - I can calculate using fractions, decimals and percentages. - I can associate a fraction with division and calculate decimal fraction equivalents. 	<ul style="list-style-type: none"> - I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles.
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Year 6

Spring Term

White Rose Maths	Decimals	Percentages	Statistics	Converting Units	Perimeter, Area and Volume
	<ul style="list-style-type: none"> - Recap Decimals up to 2 d.p. - Recap Understand - thousandths - Three decimal places - Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiply decimals by integers - Divide decimals by integers - Division to solve problems - Decimals as fractions - Fractions to decimals 	<ul style="list-style-type: none"> - Recap Understand percentages - Fractions to percentages - Equivalent FDP - Order FDP - Percentage of an amount - Percentages - missing values 	<ul style="list-style-type: none"> - Read and interpret line graphs - Draw line graphs - Use line graphs to solve problems - Circles - Read and interpret pie charts - Pie charts with percentages - Draw pie charts - The mean 	<ul style="list-style-type: none"> - Metric measures - Convert metric measures - Calculate with metric measures - Miles and kilometres - Imperial measures 	<ul style="list-style-type: none"> - Shapes - same area - Area and perimeter - Area of a triangle - Area of a parallelogram - Recap What is volume? - Volume - counting cubes - Volume of a cuboid
National Curriculum Links	<ul style="list-style-type: none"> - I can recognise the relationship between fractions, decimals and percentages. - I can calculate using fractions, decimals and percentages. - I can associate a fraction with division and calculate decimal fraction equivalents. - I can identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places. - I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate. 	<ul style="list-style-type: none"> - I can recognise the relationship between fractions, decimals and percentages. - I can calculate using fractions, decimals and percentages. - I can solve problems involving the calculation of percentages. 	<ul style="list-style-type: none"> I can interpret pie charts. I can construct and interpret data in a variety of graphs and charts. 	<ul style="list-style-type: none"> - I can calculate measures - I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate. - I can use, read, write and convert between standard units. - I can convert kilometres and metres. 	<ul style="list-style-type: none"> - I can calculate the area of parallelograms and triangles. - I can use simple formulae to solve perimeter and area problems. - I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles. - I can illustrate and name parts of circles, including radius, diameter and circumference.

Year 6

Summer Term

White Rose Maths	Algebra	Ratio	Properties of Shape
	<ul style="list-style-type: none"> - Find a rule - one step - Find a rule - two step - Forming expressions - Substitution - Formulae - Forming equations - Solve simple one-step equations - Solve two-step equations - Find pairs of values 	<ul style="list-style-type: none"> - Use ratio language - Ratio and fractions - Introducing the ratio symbol - Activity Calculating ratio - Calculating ratio - Using scale factors - Calculating scale factors - Ratio and proportion problems 	<ul style="list-style-type: none"> - Measure with a protractor - Recap Draw lines and angles accurately - Introduce angles - Recap Angles on a straight line - Recap Angles around a point - Calculate angles - Vertically opposite angles - Angles in a triangle - Angles in a triangle - special cases - Angles in a triangle - missing angles - Angles in special quadrilaterals - Angles in regular polygons - Draw shapes accurately - Draw nets of 3-D shapes
National Curriculum Links	<ul style="list-style-type: none"> - I can express missing number problems algebraically. 	<ul style="list-style-type: none"> - I can multiply numbers up to 4 digits by a 2 digit whole number. - I can divide numbers up to 4 digits by a 2 digit whole number. - I can calculate mentally using the simplest calculation. 	<ul style="list-style-type: none"> I can compare and classify geometric shapes based on their properties and sizes. I can find unknown measures in triangles, quadrilaterals and regular polygons.