ICKFORD SCHOOL

CLASS 5

Numeracy Scheme of Work

Year 6 Autumn 1					
	Weeks 1	**Week 2-3**	**Week 4**	**Weeks 5**	**Weeks 6-7**
Topic	**Number and Place Value**	**Number -Addition, Subtraction, Multiplication and Division**	**Number - Addition, Subtraction, Multiplication and Division**	**Fractions**	**Fractions Percentages and Decimals**
National Curriculum Link	Order and compare numbers up to 10 000 and round numbers to a required degree of accuracy. Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.	Solve addition and subtraction multi-step problems in contexts. Multiply numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.	Order of operations to carry out calculations involving the four operations (BODMAS). Solve problems involving addition, subtraction, multiplication and division. Identify common factors, common multiples and prime numbers. Solve problems involving addition, subtraction, multiplication and division.	Use common factors to simplify fractions. Compare and order fractions. Add and subtract fractions with different denominators and mixed numbers. Multiply simple pairs of proper fractions. Divide proper fractions by whole numbers.	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Solve problems involving the calculation of percentages.
White Rose Maths Resource Link	Place Value	Addition, Subtraction, Multiplication and Division	Addition, Subtraction, Multiplication and Division	Fractions	Fractions

Year 6 Autumn 2				
	Weeks 1	**Week 2 and 3**	**Week 4 and 5**	**Week 6**
Topic	**Measure – converting units**	**Geometry – Properties of shape**	**Geometry – reflection, translation and rotation**	**Proportion – scale factors**
National Curriculum Link	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time. Solve problems involving the calculation and conversion of units of measure. Convert between imperial measures miles and kilometres.	Draw 2-D shapes accurately. Recognise, describe and build simple 3-D nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, on straight lines, quadrilaterals, and regular polygons.	Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius . Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Solve problems involving similar shapes where the scale factor is known or can be found. Assessment Point
White Rose Maths Resource Link	Measure – converting metric measure	Geometry – Properties of shapes	Geometry Position and Direction	Ratio **Step 5 and 6 Scale Drawing and scale factors only**

Year 6 Spring 1				
	Weeks 1 and 2	**Week 3 and 4**	**Week 5**	**Week 6**
Topic	**Algebra**	**Perimeter and Area**	**Volume**	**Statistics – Mean**
National Curriculum Link	Express missing number problems algebraically use simple formulae. Generate and describe linear number sequences. Find pairs of numbers that satisfy number sentences involving two unknowns. Enumerate possibilities of combinations of two variables.	Calculate the area of rectangles, parallelograms and triangles and trapezium (HA) and circles (HA). Recognise that shapes with the same areas can have different perimeters and vice versa.	Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm^3) and cubic metres (m^3), and extending to other units such as mm^3 and km^3.	Calculate and interpret the mean, mode and median as an average
White Rose Maths Resource Link	Algebra	Measurement – Area and Perimeter Steps 1-6	Measurement – Volume of cubes and cuboids Steps 7 and 8	Statistics **Step 6 only**

Year 6 Spring 2				
	Weeks 1-2	**Week 3 and 4**	**Week 5**	**Week 6**
Topic	**Statistics**	**Statistics**	**Ratio and Proportion**	**Consolidation and Assessment**
National Curriculum Link	Interpret and construct pie charts and use these to solve multi step problems (Revision of % and fractions)	Interpret and draw line graphs and use them to solve problems Line of best fit (HA)	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	
White Rose Maths Resource Link	Statistics	Statistics Step 1 only	Ratio and Proportion	

Year 6 Summer 1				
	Weeks 1-3	**Week 4**	**Week 5 and 6**	
Topic	**Consolidation of all topics**	**SATs**	**Maths Project Work**	
National Curriculum Link	Practice of SAT papers		Problem Solving and Investigation Holiday Project	
Year 6 Summer 2				
White Rose Maths Resource Link	Consolidation and Themed Projects Cookie Project			