

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
<p>Autumn</p> <p>Mental Maths Objectives</p> <p>Times tables check and practise</p> <p>Roman numerals to 1,000</p> <p>Time Check</p> <p>Money Check</p> <p>Number Bond Check</p> <p>+ revise previous unit objectives</p>	<p>Number: Place Value</p> <p>National Curriculum objectives</p> <p>1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p> <p>2. Round any whole number to a required degree of accuracy</p> <p>3. Use negative numbers in context, and calculate intervals across zero</p> <p>4. Solve number and practical problems that involve all of the above.</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Numbers to 10,000, 100,000, a million Numbers to ten million Compare and order any number <p>Week 2</p> <ul style="list-style-type: none"> Round numbers to 10, 100 and 1,000 Round any number Negative numbers 		<p>Number: Addition, Subtraction, multiplication and Division</p> <p>National Curriculum objectives</p> <p>1. Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication</p> <p>2. 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</p> <p>3. Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>4. Perform mental calculations, including with mixed operations and large numbers</p> <p>5. Identify common factors, common multiples and prime numbers</p> <p>6. Use their knowledge of the order of operations to carry out calculations involving the four operations</p> <p>7. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>8. Solve problems involving addition, subtraction, multiplication and division</p> <p>9. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits Inverse operations (addition and subtraction) Multi step addition and subtraction problems Add and subtract integers <p>Week 2</p> <ul style="list-style-type: none"> Multiply 4 digits by 1 digit, 2 digits by 2 digits, 3 digits by 2 digits Multiply up to a 4 digit numbers by a 2 digit numbers <p>Week 3</p> <ul style="list-style-type: none"> Divide 4 digits by 1 digit and 2 digits Divide with remainders Short division Division using factors Long division <p>Week 4</p> <ul style="list-style-type: none"> Common factors Common multiples <p>Mental & Oral prime numbers to 100 squares and cubes order of operations</p> <p>Throughout unit – mental calculations and estimation Reason for known facts</p>				<p>Number: Fractions</p> <p>National Curriculum objectives</p> <p>1. Use common factors to simplify fractions; use common multiples to express fractions in the same denominator</p> <p>2. Compare and order fractions, including fractions > 1</p> <p>3. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>4. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $4 \frac{1}{2} \times 2 \frac{1}{3} = 8 \frac{1}{3}$]</p> <p>5. Divide proper fractions by whole numbers [for example, $3 \frac{1}{2} \div 2 = 6 \frac{1}{4}$]</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Equivalent fractions Simplify fractions Improper fractions to mixed numbers Mixed numbers to improper fractions <p>Week 2</p> <ul style="list-style-type: none"> Fractions on a numbers line Compare and order (denominator and numerator) <p>Week 3</p> <ul style="list-style-type: none"> Add mixed numbers Subtract mixed numbers Subtract fractions Mixed addition and subtraction <p>Week 4</p> <ul style="list-style-type: none"> Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers <p>Week 5</p> <ul style="list-style-type: none"> Four rules with fractions Fraction of an amount Fraction of an amount – find the whole 					<p>Geometry: Position and Direction</p> <p>National Curriculum objectives</p> <p>1. describe positions on the full coordinate grid (all four quadrants)</p> <p>2. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> The first quadrant Four quadrants Translations Reflections 	
Cross curricular links													
<p>Spring</p> <p>Mental Maths Objectives</p> <p>Times tables check and practise</p> <p>Roman numerals to 1,000</p> <p>Time Check</p> <p>Money Check</p> <p>Number Bond Check</p> <p>+ revise previous unit objectives</p>	<p>Number: Decimals</p> <p>National Curriculum objectives</p> <p>6. Associate a fraction with division and calculate decimal fraction equivalents</p> <p>7. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p>8. Multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>9. Use written division methods in cases where the answer has up to two decimal places</p> <p>10. Solve problems which require answers to be rounded to specified degrees of accuracy</p> <p>11. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <p>Small Steps</p> <p>Weeks 1 & 2</p> <ul style="list-style-type: none"> Understand tenths, hundredths and thousandths Up to 3 decimal places Multiply and divide by 10, 100 and 1,000 Multiple and divide decimals by integers Division to solve problems Decimals as fractions Fractions as decimals 		<p>Number: Percentages</p> <p>National Curriculum objectives</p> <p>11. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p> <p>Small Steps</p> <p>Weeks 1 & 2</p> <ul style="list-style-type: none"> Understand percentages Fractions to percentages Equivalent FDP Order FDP Percentage of an amount Percentages – missing values 		<p>Number: Algebra</p> <p>National Curriculum objectives</p> <p>1. Use simple formulae</p> <p>2. Generate and describe linear number sequences</p> <p>3. Express missing number problems algebraically</p> <p>4. Find pairs of numbers that satisfy an equation with two unknowns</p> <p>5. Enumerate possibilities of combinations of two variables.</p> <p>Small Steps</p> <p>Weeks 1 & 2</p> <p>Find a rule</p> <ul style="list-style-type: none"> Forming expression Substitution Formulae Solve one and two step equations Find pairs of values Enumerate possibilities 	<p>Measurement: Converting units</p> <p>National Curriculum objectives</p> <p>1. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p> <p>2. Use, read, write and convert between standard units, converting from a smaller unit to a larger unit, and vice versa, using decimal notation to up to three decimal places</p> <p>3. Convert between miles and kilometres</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Metric measure Convert metric measures Calculate with metric measures Miles & KM Imperial measures 	<p>Measurement: Perimeter, Area and Volume</p> <p>National Curriculum objectives</p> <p>4. Recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>5. Recognise when it is possible to use formulae for area and volume of shapes</p> <p>6. Calculate the area of parallelograms and triangles</p> <p>7. Calculate, estimate and compare volume of cubes and cuboids using standard units.</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Shapes – same area Area and perimeter Area of a triangle Area of a parallelogram Volume – count cubes Volume of a cuboid 	<p>Number: Ratio</p> <p>National Curriculum objectives</p> <p>1. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer X and + facts</p> <p>2. Solve problems involving the calculation of % and the use of % for comparison</p> <p>3. Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>4. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Using ratio language Ration and fractions Ratio symbol Calculating ratio Using scale factors Calculating scale factors Ratio and proportion problems 	<p>Statistics</p> <p>National Curriculum objectives</p> <p>1. Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>2. Calculate and interpret the mean as an average.</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Read and interpret line graphs Use line graphs to solve problems Circles Read and interpret pie charts Pie charts with percentages Draw pie charts The mean <p>Link to topic</p>	<p>Geometry: Properties of Shapes</p> <p>National Curriculum objectives</p> <p>1. Draw 2-D shapes using given dimensions and angles</p> <p>2. Recognise, describe and build simple 3-D shapes, including making nets</p> <p>3. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>4. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>5. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p> <p>Small Steps</p> <p>Week 1</p> <ul style="list-style-type: none"> Measure a protractor Draw lines and angles accurately Angles on a straight line Angles around a point Calculate angles Vertically opposite angles <p>Week 2</p> <ul style="list-style-type: none"> Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in quadrilaterals Angles in regular polygons <p>Week 3</p> <ul style="list-style-type: none"> Draw shapes accurately Draw nets of 3D shapes Radius, diamtere and circumference – not on WR 			
Cross curricular links													
<p>Summer</p>	Consolidation and SATs Preparation						Consolidation, Investigations and Preparation for KS3						
Cross curricular links													