

The Year 6 Curriculum Statement for Summer 2017

The following information is to give you an outline of some of the work your child will be covering during this term. We hope you will actively encourage your child in the work being undertaken so that learning can be both pleasurable and rewarding.

The skills and concepts on which we will be concentrating are:-

<p>English</p>	<p><u>Power of Reading</u> During the last year children have loved the different reading books we have studied and we will continue to use them this academic year.</p> <p>Our aim is to expose the children to quality texts to engage them and develop their love of reading and writing.</p>	<p><u>Texts:</u> Street Child by Berlie Doughty Victorian non-fiction text</p>
	<p><u>Grammar & Punctuation</u></p> <ul style="list-style-type: none"> - Fronted Adverbials, noun phrases, modal verbs, apostrophes for both contraction and possession. - Clauses to open sentences (which, who, where etc.) - Inverted commas in for speech. Direct and reported. - Using cohesive devices to link paragraphs (then, after that, later on etc.) - Use of higher level punctuation to mark boundaries between independent clauses - Terminology e.g. subject/object, passive/active, synonym/antonym 	
	<p><u>Handwriting</u> To practise writing legibly, fluently and with increasing speed by joining letters correctly. They will follow our cursive script handwriting scheme and will practise fluency, proportion and presentation.</p>	<p><u>Spelling</u> Revision of Year 5/6 words.</p> <p>Studying a variety of spelling patterns in line with the new National Curriculum statutory and non-statutory words lists.</p>
<p>Maths</p>		

<p>Number and Place Value</p>	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit • Round any whole number to a required degree of accuracy • Use negative numbers in context, and calculate intervals across zero • Solve number and practical problems that involve number, place value and rounding
<p>Addition, Subtraction Multiplication and Division</p>	<ul style="list-style-type: none"> • <i>Continue to use all the multiplication tables to 12×12 in order to maintain their fluency</i> • <i>Continue to practise the four operations for larger numbers using the formal written methods of columnar addition and subtraction, short and long multiplication, and short and long division</i> • Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication • Perform mental calculations, including with mixed operations and large numbers • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why • Solve problems involving addition, subtraction, multiplication and division • Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy • Identify common factors, common multiples and prime numbers • 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 • Use their knowledge of the order of operations to carry out calculations involving the four operations <i>and using brackets</i>
<p>Fractions (Including percentages and decimals)</p>	<ul style="list-style-type: none"> • Use common factors to simplify fractions; use common multiples to express fractions in the same denomination • <i>List equivalent fractions to identify fractions with common denominators</i> • Compare and order fractions, including fractions >1 Associate a fraction with division and calculate decimal fraction equivalents <ul style="list-style-type: none"> • <i>Use understanding of relationship between unit fractions and division to work backwards by multiplying a quantity that represents a unit fraction to find the whole quantity</i> • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions • <i>Use a variety of images to support understanding of multiplication with fractions</i> • Multiply simple pairs of proper fractions, writing the answer in its simplest form • Divide proper fractions by whole numbers • Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places • Multiply one-digit numbers with up to two decimal places by whole numbers • Use written division methods in cases where the answer has up to two decimal places • <i>Multiply and divide numbers with up to two decimal places by one-digit and two-digit whole numbers</i>

	<ul style="list-style-type: none"> • Solve problems which require answers to be rounded to specified degrees of accuracy <i>and check the reasonableness of answers.</i> • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Ration and Proportion	<ul style="list-style-type: none"> • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts • Solve problems involving similar shapes where the scale factor is known or can be found • <i>Use the notation $a : b$ to record ratio</i> • Solve problems involving the calculation of percentages (e.g. measures) such as 15% of 360 and the use of percentages for comparison • <i>Link percentages of 360° to calculating angles of pie charts</i> • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Algebra	<ul style="list-style-type: none"> • <i>Use symbols and letters to represent variables and unknowns in mathematical situations...</i> <ul style="list-style-type: none"> ○ <i>missing numbers, lengths, coordinates and angles mathematics and science formulae</i> ○ <i>arithmetic rules</i> ○ <i>generalising number patterns</i> ○ <i>number puzzles</i> • Express missing number problems algebraically • Use simple formulae expressed in words • Enumerate all possibilities of combinations of two variables • Generate and describe linear number sequences • Find pairs of numbers that satisfy number sentences involving two unknowns. <i>e.g. $a - b = 5$, give pairs of values that a and b could have (e.g. 8, 3 or 6.5, 1.5 or ...)</i>
Measurement	<ul style="list-style-type: none"> • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to three decimal places • Recognise that shapes with the same areas can have different perimeters and vice versa • Recognise when it is possible to use formulae for area and volume of shapes • Calculate the area of parallelograms and triangles, <i>relating it to the area of rectangles</i> • Solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate • convert between miles and kilometres <i>and other units commonly used</i> • 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. • <i>Begin to use compound units for speed e.g. miles per hour</i>
Properties of shape.	<ul style="list-style-type: none"> • Draw 2-D shapes using given dimensions and angles <i>using measuring tools and conventional markings and labels for lines and angles</i> • Recognise, describe and build simple 3-D shapes, including making nets

	<ul style="list-style-type: none"> • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles <i>describing them algebraically</i> • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius <i>describing it algebraically as $d=2r$</i> 	
Position and direction	<ul style="list-style-type: none"> • 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. • <i>Predict missing coordinates of quadrilaterals by using the properties of shapes, which may be expressed algebraically</i> • <i>Draw and label a pair of axes in all four quadrants with equal scaling.</i> 	
Statistics	<ul style="list-style-type: none"> • Calculate and interpret the mean as an average. • Interpret and construct pie charts and line graphs and use these to solve problems • <i>Encounter and draw graphs relating two variables, arising from their own enquiry and in other subjects.</i> 	
Science	Forces and Sex and relationship education	
Computing	We are marketers	
History	Victorians	
Art	William Morris	
D&T	Cross-stitching embroidery	
PSHCE	<u>UNICEF Rights of the Child</u>	
French	We will looking at some authentic cafe menus (sent to us from our friends in Epinal) and building conversations set in a cafe.	
PE	Athletics and Rounders	PE Days: Monday and Thursday

Visits / events for this term:

Location	Date	Approx. Cost
Summer production TBC	Late summer term TBC	TBC
Black Country Museum	June 8 th 2017	£22.50