

Year6MathsCurriculumMediumTermPlan(LearningObjectives)-SpringTerm2017

Whole School Theme: Present, Past and Future / Year group Theme: Tomb Raiders	
Values	Kindness/integrity
Learning Skills	-Curiosity -Communication -Teamwork -Determination -Confidence -Independence -Focus -Aspiration
Curriculum Drivers	Knowledge of the world- Who am I? What is my locality? How do I fit in with the wider world? Possibilities- How can I 'Be the Best I can Be?' How can I make the most of my opportunities? Community- How can I take responsibility for my school and local community? How does my community compare with others? How can I help others?
Blocked Learning	<p>Measure (Continued from Autumn Term)</p> <p>Read and interpret scales on a range of measuring instruments, explaining what each labelled division represents.</p> <p>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.</p> <p>To solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places.</p> <p>Convert between miles and kilometers.</p> <p>Understand and use approximate equivalences between metric and imperial units such as inches, pounds and pints.</p> <p>Recognise that shapes with the same areas can have different perimeters and vice versa.</p> <p>Recognise when it is possible to use formula for area and volume of shapes.</p> <p>Calculate the area of parallelograms and triangles.</p> <p>Calculate, estimate and compare volumes of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³) and extending to other units (for examples mm³, km³)</p> <p>(2 weeks)</p> <p>Geometry-PropertiesofShape</p> <p>Draw and measure given angles and 2-D shapes accurately using given dimensions and angles.</p> <p>Recognise 3D shapes from 2D representations, describe and build simple 3D shapes including making nets.</p> <p>Compare and classify geometric shapes based on their properties and sizes.</p> <p>Identify acute, obtuse and reflex angles.</p> <p>Know angles are measured in degrees, recognize angles where they meet at a point, on a straight line or are vertically opposite and find missing angles.</p> <p>Find unknown angles in any triangles, quadrilaterals and regular polygons.</p> <p>Illustrate and name parts of a circle including radius, diameter and circumference and know that diameter is twice the radius.</p> <p>Use the properties of rectangles and triangles to deduce related facts and find missing lengths and angles.</p> <p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p> <p>Know the properties of 2-D shapes including lines of symmetry, angles, number of parallel and perpendicular lines. Describe positions on the full coordinate grid (all four quadrants).</p> <p>Draw and translate simple shapes on the coordinate plane, reflect them in the axes and reason about a shapes position.</p> <p>(2 weeks)</p> <p>Plus assessment week and review 5 weeks</p>
Ongoing	<p>Algebra</p> <p>Use simple formulae.</p> <p>Generate and describe linear number sequences.</p> <p>Express missing number problems algebraically.</p> <p>Find pairs of numbers that satisfy number sentences involving two unknowns.</p> <p>Enumerate possibilities of combinations of two variables.</p> <p>(1 week)</p> <p>Fractions(includingdecimalsandpercentages)</p> <p>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</p> <p>Compare and order fractions, including fraction >1.</p> <p>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest form.</p> <p>Divide proper fractions by whole numbers.</p> <p>Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.</p> <p>Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.</p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</p> <p>Recognise mixed number and improper fractions and convert from one form to the other.</p> <p>Solve problems which require knowing percentage and decimal equivalents.</p> <p>Calculate fraction and percentages of quantities and measurements.</p> <p>(2weeks)</p> <p>Ratio and Proportion</p> <p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</p> <p>Solve problems involving the calculation of percentages (percentage of amounts)</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found.</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</p> <p>(1 Week)</p> <p>HandlingData&Statistics</p> <p>Interpret and construct pie charts to solve problems.</p> <p>Interpret and construct line graphs and use these to solve problems.</p> <p>Complete, read and interpret information in tables, including timetables.</p> <p>Use Venn and Carroll diagrams to record their sorting and classifying of information.</p> <p>(2 Week)</p> <p>Plus assessment week 6 weeks</p>
	<p>MentalMethodsandStrategies</p> <p>Know and practice strategies for mental addition and subtraction problems including counting on and partitioning.</p> <p>Know and practice mental strategies for multiplication and division.</p> <p>TimesTableFluency</p> <p>Know with increased speed and fluency our times tables up to 12.</p>
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