

Maths PoS: Year 8 HT1

Students will colour code as they work through the scheme of work,

| Students will learn about... Number, Data Handling and Shape | | |
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| Grade 1-3 | Grade 4-6 | Grade 7-9 |
| <p>Students will:</p> <p>Identify pairs of factors for a number and common factors of 2 numbers.</p> <p>Calculate difference between a positive and negative number.</p> <p>Know the prime numbers less than 100 and understand they have only 2 factors.</p> <p>Find prime factors of a 2 digit number.</p> <p>Know square number up to 12×12.</p> <p>Construct a frequency table using a tally chart.</p> <p>Construct and interpret a pictogram.</p> <p>Construct and interpret a bar chart.</p> <p>Calculate median, mode, mean and range.</p> <p>Identify 2D shapes by using their properties.</p> <p>Recognise & construct parallel and perpendicular lines.</p> <p>Calculate angles on a straight line.</p> <p>Calculate angles in a triangle and round a point.</p> | <p>Students will:</p> <p>Calculate Highest Common Factor.</p> <p>Calculate Lowest Common Multiple.</p> <p>Add, subtract, multiply and divide integers.</p> <p>Use squares, positive and negative square roots, cubes and cube roots.</p> <p>Understand and evaluate indices.</p> <p>Know which average to use and why.</p> <p>Construct bar charts for discrete and continuous data.</p> <p>Construct and interpret pie chart for discrete and continuous data.</p> <p>Calculate the mean from a frequency table.</p> <p>Construct a scattergraph and comment on the relationship.</p> <p>Construct a stem and leaf diagram & find the median.</p> <p>Identify the rules for finding missing angles in parallel lines.</p> <p>Give reasons for angles in parallel lines and shapes.</p> <p>Understand and replicate the proof of angles in a triangle using parallel lines.</p> <p>Find angles in quadrilaterals.</p> <p>Measure and construct bearings.</p> | <p>Students will:</p> <p>Index notation with negative and fractional indices</p> <p>Represent fractional indices as roots and cube roots.</p> <p>Work through the entire data handling cycle.</p> <p>Plot cumulative frequency curves.</p> <p>Plot box plots.</p> <p>Calculate median and interquartile range from a cumulative frequency diagram and from a set of data.</p> <p>Find shorter and longer sides of a triangle using Pythagoras theorem.</p> <p>Find missing angles in polygons and combination using parallel lines.</p> <p>Know that the tangent at any point on a circle is perpendicular to the radius at that point.</p> <p>Explain why the perpendicular from the centre to the chord bisects the chord.</p> |
| <p>Assessment</p> <p>Topic tests, teacher professional judgement based upon classwork and homework.</p> | | |

Maths PoS: Year 8 HT2

Students will colour code as they work through the scheme of work.

| Students will learn about... Equations, Area and Volume | | |
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| Grade 1-3 | Grade 4-6 | Grade 7-9 |
| <p>Students will:</p> <p>Give a general statement to describe patterns in shape and number.</p> <p>Construct and use simple formulae (e.g. the cost of c pens at 15 pence each is $15c$ pence).</p> <p>Measure & calculate the perimeter of regular and irregular polygons.</p> <p>Calculate the area of a rectangle.</p> <p>Estimate the area of irregular shapes by counting squares.</p> <p>Plot coordinates in the first quadrant.</p> <p>Complete a shape in the first quadrant using coordinates and the properties of the shape.</p> <p>Identify and draw nets of 3D shapes.</p> | <p>Students will:</p> <p>Understand equations and their meaning.</p> <p>Expand two single brackets and collect like terms.</p> <p>Substitute numbers into expressions and formulae.</p> <p>Evaluate basic indices.</p> <p>Calculate the area of a triangle, parallelogram, and trapezium.</p> <p>Calculate area of compound shapes.</p> <p>Calculate the volume & surface area of cubes and cuboids.</p> <p>Find the missing side of a cuboid using the volume.</p> | <p>Students will:</p> <p>Know and use the index laws including $(2a^4)^3$.</p> <p>Expand 2 brackets e.g. $(2x + 3)(3x+2)$.</p> <p>Square a bracket.</p> <p>Establish identities such as $a^2 - b^2 = (a + b)(a - b)$.</p> <p>Calculate lengths of arc and area of sectors.</p> <p>Calculate surface area and volume of a cylinder.</p> |
| <p>Assessment</p> <p>Topic tests, teacher professional judgement based upon classwork and homework.</p> | | |

Maths PoS: Year 8 HT3

Students will colour code as they work through the scheme of work.

| Students will learn about... Sequences, Number, Probability | | |
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| Grade 1-3 | Grade 4-6 | Grade 7-9 |
| <p>Students will:</p> <p>Count on from any number in decimals.</p> <p>Extend a sequence into the negatives.</p> <p>Describe the rule connecting a sequence of numbers.</p> <p>Subtract numbers into the 1000's.</p> <p>Multiply and divide decimals using known multiplication facts.</p> <p>Use written methods to add and subtract numbers.</p> <p>Multiply (2 digits by 2digit) and divide numbers using written methods.</p> <p>Use a calculator to check calculations and find fractions of amounts.</p> <p>Use correct words to describe the likelihood of an event.</p> <p>Use data to predict the likelihood of an event.</p> | <p>Students will:</p> <p>Generate the nth term.</p> <p>Create a sequence using the nth term.</p> <p>Decide if a number is in a sequence using the nth term.</p> <p>Use BIDMAS.</p> <p>Recall basic fractions/decimals/percentages.</p> <p>Know basic squares, cubes and their respective roots.</p> <p>Use rounding to estimate an answer.</p> <p>Add, subtract, multiply, & divide integers and decimals using a written method.</p> <p>Use Power, roots, brackets and fraction button on the calculator.</p> <p>Understand probability adds up to one.</p> <p>Create diagrams and tables to calculate probability of two events.</p> <p>Compare theoretical and experimental probability to decide if an experiment is bias.</p> <p>Understand probability adds up to one.</p> <p>Create diagrams and tables to calculate probability of two events.</p> | <p>Students will:</p> <p>Calculate the nth term of a quadratic sequence.</p> <p>Use triangular and square numbers to predict spatial patterns.</p> <p>Round numbers to significant figures and apply in calculations.</p> <p>Recognise and use reciprocals.</p> <p>Know that any number multiplied by its reciprocal is 1.</p> <p>Convert between standard form numbers and ordinary numbers.</p> <p>Use standard form numbers on a calculator.</p> <p>Use reciprocal and trigonometry functions on a calculator.</p> <p>Calculate relative frequency and use to compare outcomes.</p> <p>Use tree diagrams to represent outcomes of 2 or more events.</p> <p>Use and apply the AND & OR rules.</p> |
| <p>Assessment</p> <p>Topic tests, teacher professional judgement based upon classwork and homework.</p> | | |

Maths PoS: Year 8 HT4

Students will colour code as they work through the scheme of work.

| Students will learn about... Ratio and Proportion, Functions and Graphs, Coordinates and Transformations | | |
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| Grade 1-3 | Grade 4-6 | Grade 7-9 |
| <p>Students will:</p> <p>Decrease or increase a recipe to feed certain number of people.</p> <p>Solve simple problems of proportion by doubling or trebling.</p> <p>Identify lines of symmetry.</p> <p>Reflect a shape in a vertical mirror line.</p> <p>Rotate a shape about its centre of using one of its corners (Vertices).</p> | <p>Students will:</p> <p>Simplify ratios with differing units.</p> <p>Divide an amount in a ratio of 2 or more numbers.</p> <p>Calculate the value of a single unit in ratio and proportion.</p> <p>Use ratio and proportion to calculate which item is a best buy.</p> <p>Plot any linear graph in all four quadrants.</p> <p>Know $y = mx+c$ is a straight line graph.</p> <p>Plot and interpret distance time graphs.</p> <p>Translate a shape across a grid and write the translation.</p> <p>Rotate a shape about any coordinate.</p> <p>Reflect a shape in a basic graph mirror line.</p> <p>Enlarge a shape using a positive scale factor.</p> <p>Enlarge a shape from the centre of enlargement using a positive scale factor.</p> <p>Identify congruent shapes.</p> | <p>Students will:</p> <p>Calculate the original amount after a percentage change.</p> <p>Understand and use proportionality and calculate the result of any proportional change.</p> <p>Calculate the gradient of a graph line.</p> <p>Construct and interpret time series graphs.</p> <p>Plot quadratic and cubic graphs.</p> <p>Plot the graph of an inverse of a linear function.</p> <p>Plot perpendicular graphs and see the connection.</p> <p>Transform a 2D shape using multiply transformations.</p> <p>Understand translations are written as a vector.</p> <p>Enlarge 2D shapes by positive, negative and fractional scale factors.</p> <p>Understand the effect of enlargement on area and perimeter.</p> <p>Understand from this that any two circles and any two squares are mathematically similar while in general any two rectangles are not.</p> |
| <p>Assessment</p> <p>Topic tests, teacher professional judgement based upon classwork and homework.</p> | | |

Maths PoS: Year 8 HT5

Students will colour code as they work through the scheme of work.

| Students will learn about... Shape, Algebra and Number | | |
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| Grade 1-3 | Grade 4-6 | Grade 7-9 |
| <p>Students will:</p> <p>Compare and evaluate approaches; recognise equivalent approaches.</p> <p>Take account of feedback and learn from mistakes.</p> <p>Understand and use the language and notation associated with reflections, translations and rotations.</p> <p>Recognise and visualise the symmetries of a 2-D shape.</p> <p>Transform 2-D shapes by: reflecting in given mirror lines; rotating about a given point; translating.</p> <p>Interpret information from a mathematical representation or context.</p> <p>Know the meanings of the words <i>term</i>, <i>expression</i> and <i>equation</i>.</p> <p>Construct and solve simple linear equations with integer coefficients (unknown on one side only) using an appropriate method (e.g. inverse operations).</p> <p>Express a smaller whole number as a fraction of a larger one; simplify fractions by cancelling all common factors and identify equivalent fractions; convert terminating decimals to fractions, e.g. $0.23 = \frac{23}{100}$; use diagrams to compare two or more simple fractions.</p> <p>Add & subtract simple fractions and those with common denominators; calculate simple fractions of quantities & measurements (whole-number answers); multiply a fraction by an integer.</p> | <p>Students will:</p> <p>Manipulate algebraic equations.</p> <p>Recognise that letter symbols play different roles in equations, formulae and functions.</p> <p>Construct and solve linear equations with integer coefficients (unknown on either or both sides, without and with brackets) using appropriate methods (e.g. inverse operations, transforming both sides in same way).</p> <p>Use graphs and set up equations to solve simple problems involving direct proportion.</p> <p>Substitute integers into simple formulae, including examples that lead to an equation to solve.</p> <p>Make connections with related contexts.</p> <p>Estimate, approximate and check working.</p> <p>Recognise that a recurring decimal is a fraction; use division to convert a fraction to a decimal; order fractions by writing them with a common denominator or by converting them to decimals.</p> <p>Add and subtract fractions by writing them with a common denominator; calculate fractions of quantities (fraction answers); multiply and divide an integer by a fraction.</p> <p>Interpret percentage as the operator 'so many hundredths of' and express one given number as a percentage of another; calculate percentages and find the outcome of a given percentage increase or decrease.</p> <p>Use the equivalence of fractions, decimals and percentages to compare proportions.</p> | <p>Students will:</p> <p>Distinguish between fractions with denominators that have only prime factors 2 or 5 (terminating decimals), and other fractions (recurring decimals).</p> <p>Understand and apply efficient methods to add, subtract, multiply and divide fractions, interpreting division as a multiplicative inverse.</p> <p>Solve problems involving surface areas and volumes of cylinders.</p> <p>Manipulate algebraic expressions and equations.</p> <p>Derive and use more complex formulae; change the subject of a formula, including cases where a power of the subject appears in the question or solution, e.g. find r given that $A = \pi r^2$.</p> <p>Make sense of, and judge the value of, own findings and those presented by others.</p> <p>Find the points that divide a line in a given ratio, using the properties of similar triangles; calculate the length of AB, given the coordinates of points A and B.</p> <p>Understand and use trigonometric relationships in right-angled triangles, and use these to solve problems, including those involving bearings.</p> |

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| <p>Understand percentage as the 'number of parts per 100'; calculate simple percentages and use percentages to compare simple proportions.</p> <p>Recognise the equivalence of percentages, fractions and decimals.</p> | <p>Use formulae from mathematics and other subjects; substitute integers into simple formulae, including examples that lead to an equation to solve; substitute positive integers into expressions involving small powers, e.g. $3x^2 + 4$ or $2x^3$; derive simple formulae.</p> <p>Simplify or transform linear expressions by collecting like terms; multiply a single term over a bracket.</p> <p>Construct & solve linear equations with integer coefficients (unknown on either or both sides) using appropriate methods (e.g. inverse operations, transforming both sides in the same way).</p> <p>Identify the mathematical features of a context or problem.</p> <p>Express simple functions algebraically and represent them in mappings or on a spreadsheet.</p> <p>Generate points in all four quadrants and plot the graphs of linear functions, where y is given explicitly in terms of x, on paper and using ICT; recognise that equations of the form $y = mx + c$ correspond to straight-line graphs.</p> <p>Construct linear functions arising from real-life problems and plot their corresponding graphs; discuss and interpret graphs arising from real situations, e.g. distance–time graphs</p> | |
| <p>Assessment</p> <p>Topic tests and end of year assessment, teacher professional judgement based upon classwork and homework.</p> | | |

Maths PoS: Year 8 HT6

Students will colour code as they work through the scheme of work.

| Students will learn about... Number, Shape and Data Handling | | |
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| Grade 1-3 | Grade 4-6 | Grade 7-9 |
| <p>Students will:</p> <p>Record methods, solutions and conclusions.</p> <p>Understand and use decimal notation and place value; multiply and divide integers and decimals by 10, 100, 1000, and explain the effect.</p> <p>Compare and order decimals in different contexts; know that when comparing measurements the units must be the same.</p> <p>Round positive whole numbers to the nearest 10, 100 or 1000, and decimals to the nearest whole number or one decimal place.</p> <p>Use the order of operations, including brackets.</p> <p>Strengthen and extend mental methods of calculation to include decimals, fractions and percentages, accompanied where appropriate by suitable jottings; solve simple problems mentally.</p> <p>Multiply and divide three-digit by two-digit whole numbers; extend to multiplying and dividing decimals with one or two places by single-digit whole numbers.</p> <p>Check results by considering whether they are of the right order of magnitude and by working problems backwards.</p> <p>Use a ruler and protractor to:</p> <p>(i) measure and draw lines to the nearest millimetre and angles, including reflex angles, to the nearest degree; construct a triangle given two sides and the included angle (SAS) or two angles and the included side (ASA).</p> | <p>Students will:</p> <p>Give accurate solutions appropriate to the context or problem.</p> <p>Read and write positive integer powers of 10; multiply and divide integers and decimals by 0.1, 0.01</p> <p>Order decimals.</p> <p>Round positive numbers to any given power of 10; round decimals to the nearest whole number or to one or two decimal places.</p> <p>Make and justify estimates and approximations of calculations.</p> <p>Strengthen and extend mental methods of calculation, working with decimals, fractions, percentages, squares and square roots, and cubes and cube roots; solve problems mentally.</p> <p>Use efficient written methods for multiplication and division of integers and decimals, including by decimals such as 0.6 or 0.06; understand where to position the decimal point by considering equivalent calculations.</p> <p>Select from a range of checking methods, including estimating in context and using inverse operations.</p> <p>Visualise 3-D shapes from their nets; use geometric properties of cuboids and shapes made from cuboids; use simple plans and elevations.</p> <p>Make scale drawings.</p> <p>Find the midpoint of the line segment AB, given the coordinates of points A and B.</p> | <p>Students will:</p> <p>Interpret and explore combining measures into rates of change in everyday contexts (e.g. km per hour, pence per metre); use compound measures to compare in real-life contexts (e.g. travel graphs and value for money), using ICT as appropriate.</p> <p>Understand and use measures of speed (and other compound measures such as density or pressure); solve problems involving constant or average rates of change</p> <p>Use a range of forms to communicate findings effectively to different audiences.</p> <p>Explain the features selected and justify the choice of representation in relation to the context.</p> <ul style="list-style-type: none"> • Independently devise a suitable plan for a substantial statistical project and justify the decisions made. • • Identify possible sources of bias and plan how to minimise it. • <p>Break a task down into an appropriate series of key statements (hypotheses), and decide upon the best methods for testing these</p> <ul style="list-style-type: none"> • gather data from primary and secondary sources, using ICT and other methods, including data from observation, controlled experiment, data logging, printed tables and lists. • • Analyse data to find patterns and exceptions, and try to explain anomalies; include social statistics such as index numbers, time series and survey data. • |

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| | <p>Visualise and manipulate dynamic images.</p> <p>Make accurate mathematical constructions on paper and on screen.</p> <p>Find simple loci, both by reasoning and by using ICT, to produce shapes and paths, e.g. an equilateral triangle.</p> <p>Use straight edge and compasses to construct;</p> <ul style="list-style-type: none"> (i) the mid-point and perpendicular bisector of a line segment; (ii) the bisector of an angle; (iii) the perpendicular from a point to a line; (iv) the perpendicular from a point on a line (v) a triangle, given three sides (SSS) | <ul style="list-style-type: none"> • Appreciate that correlation is a measure of the strength of association between two variables; distinguish between positive, negative and zero correlation, using lines of best fit; appreciate that zero correlation does not necessarily imply 'no relationship' but merely 'no linear relationship'. • Examine critically the results of a statistical enquiry; justify choice of statistical representations and relate summarised data to the questions being explored. |
| <p>Assessment</p> <p>Topic tests and end of year assessment, teacher professional judgement based upon classwork and homework.</p> | | |