

Year 7

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|--|---|---|---|--|
| <ul style="list-style-type: none"> • Place value • Rounding • Estimating • Addition and Subtraction of integers and decimals • Unit conversion • Perimeter • Negative number (ordering, addition and subtraction) | <ul style="list-style-type: none"> • Negative number (multiplication and division) • Multiples, Factors, LCM and HCF • Powers and Roots • Prime Factorisation • Multiplication and Division of integers and decimals • Area of rectangles, parallelograms, triangles, trapeziums and compound shapes | <ul style="list-style-type: none"> • Order of Operations • Simplifying algebraic expressions • Forming algebraic expressions • Expanding a single bracket • Factorising • Substitution • Function Machines • Solving Equations • Sequences | <ul style="list-style-type: none"> • Symmetry and Tessellation • Drawing and Measuring angles • Finding unknown angles (straight line, around a point, vertically opposite, triangle, quadrilateral) | <ul style="list-style-type: none"> • Equivalent fractions • Simplifying fractions • Change mixed numbers to improper fractions and vice versa • Compare and order fractions and decimals • Adding and Subtracting fractions • Fraction of an amount • Multiplying and Dividing fractions | <ul style="list-style-type: none"> • Mean, median and mode averages • Range • Averages from a table • Construct and interpret statistical diagrams including pie charts • Questionnaires and Sampling |

Year 8

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| <ul style="list-style-type: none"> • Convert between percentages, vulgar fractions and decimals • Percentage of a quantity • Finding the whole, given a part • Percentage increase and decrease, including multipliers • Compound Interest and Depreciation • Percentage Change • Reverse percentages • Ratio • Direct and Indirect Proportion | <ul style="list-style-type: none"> • Circumference of a circle and arc length • Area of a circle and sector • 3-D shapes and their nets • Plans and Elevations • Surface Area • Volume of cuboid, prism, cylinder, composite solids • Area and Volume • Unit Conversion | <ul style="list-style-type: none"> • Simplifying algebraic expressions • Expanding a single bracket • Factorising • Forming algebraic expressions • Solving Equations • Rearranging Formulae • Speed, Distance, Time • Density, Mass, Volume • Pressure, Force, Area | <ul style="list-style-type: none"> • Coordinates including midpoint of a line segment • Scatter Graphs • Frequency Polygons • Linear Graphs | <ul style="list-style-type: none"> • Probability (including sample space diagrams, frequency trees and Venn diagrams) • Congruence and similarity • Enlargement | <ul style="list-style-type: none"> • Finding unknown angles (parallel lines) • Angles in Polygons • Constructing Triangles • Bisectors • Loci and Construction |

Year 9

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|---|--|--|--|---|
| <ul style="list-style-type: none"> • Standard Form • Direct and inverse proportion • Calculation with scales • Forming and Solving equations • Inequalities | <ul style="list-style-type: none"> • Pythagoras' Theorem • Trigonometry in right-angled triangles • Bearings | <ul style="list-style-type: none"> • Simplifying algebraic expressions • Expanding double brackets • Factorising quadratic expressions • Substitution • Drawing quadratic graphs • Solving quadratic equations • Simultaneous Equations | <ul style="list-style-type: none"> • Sequences • Algebraic Proof • Linear Graphs • Cubic and Reciprocal Graphs • Real Life Graphs | <ul style="list-style-type: none"> • Congruence • Vectors • Transformations (translation, rotation, reflection) | <ul style="list-style-type: none"> • Probability Trees <p>Revision</p> |