

| Curriculum Map 2023-24 | | | | | | |
|------------------------|---|---|--------------------------|--|---|--|
| Year 10 | | | | | | |
| Half term | Unit title with hyperlink to scheme of work | Unit summary | Skills & content covered | Skills & content revisited | Summary of formative marking, feedback and student response | Summative assessment schedule, including assessment criteria |
| Autumn 1 | Powers and roots | Number properties including factors, multiples, powers and roots, and extending to indices and surds. | Dependent on group. | Prime factorisation HCF and LCM Standard form Simple index laws | Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework. | |
| | Sequences, functions and graphs | Finding and using nth term rules, making links to linear functions and their graphs. Using $y=mx+c$ and extending to simultaneous equations and functions. | | Nth term - linear sequences Linear graphs | | |
| | Ratio and decimals | Calculating with decimals, standard form and problem solving with ratio, extending to bounds and similar shapes. | | Rounding Decimal calculation Ratio | | |
| Autumn 2 | Mensuration and calculation | Use of formulae to calculate area and volume of a range of 2D and 3D shapes, extending to working algebraically. | Dependent on group. | Area of 2D shapes Volume of simple prisms | Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework. | Assessment for PC1 |
| | Probability | Use a range of diagrams and calculations to deepen understanding of probability, extending to working algebraically. | | Probability of single events Probability of combined events | | |
| | Expressions and equations | Manipulating algebraic expressions and solving equations and inequalities, extending to simultaneous equations and quadratics. | | Creating and simplifying expressions Expanding and factorising Solving simple equations | | |
| Spring 1 | Angles, shapes and trigonometry | Use of angle facts, Pythagoras theorem and trigonometry to find missing angles and lengths in triangles and shapes made from triangles, extending to advanced trigonometry. | Dependent on group. | Simple angle facts - angles in triangle, quadrilateral, on straight line, vertically opposite. Angles in polygons. Squares and square roots. | Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework. | |
| | Quadratics and other curves | Plotting graphs of curves and identifying key features of these graphs, extending to solving quadratic equations using a range of methods. | | Coordinates Plotting from table of values | | |
| Spring 2 | Fractions, decimals and percentages | Calculating with fractions and percentages - with and without calculators, extending to reverse %, compound % change and converting recurring decimals to fractions. | Dependent on group. | 4 operations with fractions Fraction and % of a number Simple % change | Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework. | Assessment for PC2 |
| | Relationships, graphs and rates of change | Working with compound measures - speed, density and pressure and solving proportion problems, extending to formal use of proportion equations. Distance - time graphs and velocity - time graphs, extending to average and instantaneous rates of change. | | Proportional reasoning Science curriculum | | |
| Summer 1 | Handling data | Working with summary statistics and comparing data sets. Displaying and interpreting data using a range of diagrams eg. pie charts, frequency polygons, stem and leaf diagrams, leading to cumulative frequency and histograms. | Dependent on group. | Visual representations of data. Use of averages and range. | Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework. | |
| | Angles and construction | Scale drawings and constructing shapes and loci using rulers, protractors and compasses. Bearings and angles leading to circle theorems. | | Use of mathematical equipment. Angles | | |
| Summer 2 | Transformations and vectors | Transformations - reflection, rotation, enlargement and translation. Working with column vectors, extending to geometry problems with vectors and proof. | Dependent on group. | Symmetry Simple transformations | Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework. | End of year assessment - 3 papers |