| Foundation | Higher |
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| Real-life graphs <br> - Function machine <br> - Coordinates and shapes in all four quadrants <br> - Coordinates of midpoint <br> - Real-life graphs <br> - Distance-time graphs <br> - Velocity-time graphs <br> - Gradient as a rate of change | Transformation <br> - Rotation <br> - Translation <br> - Reflection <br> - Enlargement <br> - Preservation of properties under a given transformation <br> - Area after enlargement compared to before <br> - Congruence <br> - Invariance points |
| Straight Line graphs <br> - Plot and draw graphs of $\mathrm{y}=\mathrm{a}, \mathrm{x}=\mathrm{a}, \mathrm{y}=$ x and $\mathrm{y}=-\mathrm{x}$ <br> - Plot and draw graphs of $y=m x+c$ <br> - Plot and draw graphs of the form ax + by $=\mathrm{c}$ <br> - Gradient of a straight line <br> - Gradient of parallel lines <br> - Draw linear graphs using gradient and $y$ intercept <br> - Find equation of a straight line | Construction and Loci <br> - Plan and elevation <br> - Map reading and scale drawing <br> - Bearing <br> - Angle bisection <br> - Line bisection <br> - Construct perpendicular line from a given point <br> - Construct $90^{\circ}$ and $45^{\circ}$ <br> - Construction of shapes <br> - The four loci <br> - Loci and regions |

Assessment 1

| Transformation <br> - Congruent shapes <br> - Rotation <br> - Reflection <br> - Translation <br> - Enlargement <br> - Examine the impact of transformation on the image | Quadratic and Simultaneous Equations <br> - Factorise and solve Quadratic equations <br> - The use of completing the square method <br> - Quadratic formula <br> - Elimination method of simultaneous equation <br> - Substitution method of simultaneous equation <br> - Equation of circles <br> - Simultaneous equation involving one linear and one quadratic <br> - Forming and solving simultaneous and quadratic equations <br> - Solve inequality in one variable <br> - Solve inequality in two variables <br> - Inclusivity and exclusivity and inequality |
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| Year 10 Assessment 1 |  |
| Ratio <br> - Simplifying ratio <br> - Ratio to describe a situation <br> - Write ratios in the form $1: n$ or m: 1 <br> - Ratio of quantity <br> - Ratio when part is known <br> - Ratio to fractions <br> - Ratio and linear functions <br> - Ratio to compare measures and currencies <br> - Write area and volume in ratio | Probability <br> - Calculate the probability of event happening or not happening <br> - Experimental and theoretical probabilities <br> - Expectations <br> - Sample space diagram <br> - Probability of event not happening <br> - Venn diagram and probability <br> - Two-way table and probability <br> - Laws of probability <br> - Probability tree diagram <br> - Conditional probability |
| Proportion <br> - Direct and indirect proportion <br> - Best buy <br> - Unitary method of proportion <br> - Proportion and recipes | - |


| $-\quad$ Proportion problems and unitary method |  |
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| $-\quad$ Proportional graphs |  |
| - Assessment 2 | $\bullet$ |

