| Foundation | Higher |
| :---: | :---: |
| Similarity and congruence of 2D <br> - Conditions for congruence (SSS, SAS, ASA, RHS) <br> - Congruence and angle problems <br> - Similar triangles and other shapes <br> - Scale factor of enlargement and similar shapes <br> - Effect of enlargement on perimeter of shapes <br> - Finding missing sides of similar shapes <br> - Similar shapes and problem solving | Vector and geometric proof <br> - Vector notations <br> - Parallel vectors <br> - Vector representation <br> - Vector arithmetic <br> - Magnitude of a vector <br> - Resultant vectors <br> - Solve geometric problems in 2D <br> - Geometric proof and vectors of parallel and collinear vectors |
| Vectors <br> - Column vectors <br> - Vector representation <br> - Parallel vectors <br> - Sum of vectors <br> - Difference of two vectors and <br> - Scalar multiplication | Reciprocal and exponential graphs <br> - Recognise, sketch reciprocal functions <br> - Conditions for which a function is undefined <br> - Recognise and sketch exponential graphs <br> - Exponential growth and decay <br> - Reflection of curves <br> - Translation of curves <br> - Stretching curves <br> - Estimate area under a curve <br> - Gradient of a non-linear line <br> - Estimating speed, velocity and acceleration of curves <br> - Gradient of linear and non-linear in financial context <br> - Interpret area under a curve <br> - Interpreting rate of change |
| Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations <br> - Equations, identities, expressions and formula | Direct and inverse proportions <br> - Recognise and interpret graphs of direct and inverse proportions |

- Change the subject of formula
- Inverse proportions graphically
- Equation of a line segment
- Graphs of cubic functions
- Graphs of reciprocal graphs
- Gradient from ax + by $=c$
- Simultaneous equation
- Simultaneous equations graphically
- Form and solve simultaneous equations
- Identify direct and inverse functions from tables
- Solve direct proportion problems
- Solve inverse proportion questions
- Combination of direct and inverse proportion problems

