Year 11 Autumn	
Foundation	Higher
Similarity and congruence of 2D - Conditions for congruence (SSS, SAS, ASA, RHS) - Congruence and angle problems - Similar triangles and other shapes - Scale factor of enlargement and similar shapes - Effect of enlargement on perimeter of shapes	Vector and geometric proof - Vector notations - Parallel vectors - Vector representation - Vector arithmetic - Magnitude of a vector - Resultant vectors - Solve geometric problems in 2D - Geometric proof and vectors of parallel and
 Finding missing sides of similar shapes Similar shapes and problem solving Vectors	collinear vectors Reciprocal and exponential graphs
- Column vectors - Vector representation - Parallel vectors - Sum of vectors - Difference of two vectors and - Scalar multiplication	- Recognise, sketch reciprocal functions - Conditions for which a function is undefined - Recognise and sketch exponential graphs - Exponential growth and decay - Reflection of curves - Translation of curves - Stretching curves - Estimate area under a curve - Gradient of a non-linear line - Estimating speed, velocity and acceleration of curves - Gradient of linear and non-linear in financial context - Interpret area under a curve - Interpreting rate of change
reciprocal functions and simultaneous equations - Equations, identities, expressions and formula	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

Revision for GCSE exams