



## Higher Tier GCSE Mathematics Revision List

The following is a list of the main topics in your summer assessments. Please note that, aside from these topics, other skills and knowledge may be required as set out in the OCR J560 specification. Study support is available in U12 at 13:15pm every Tuesday and in U1 at 13:15pm every Thursday.

- Simplify an algebraic product by using negative integer indices to represent reciprocals and fractional indices to represent roots
- Algebraic proof involving collecting terms
- Fractions. Express percentage change as a decimal or fractional multiplier and apply in context.
- Angles and calculations with ratio.
- Apply exact trigonometric ratios to right angled triangles to find a length.
- Combined probability calculation
- Congruent triangles
- Construct a Venn diagram to solve a conditional probability problem in context
- Cosine rule, Sine rule
- Cumulative frequency
- Dependent events calculation with no tree diagram provided
- Find an original amount within problem solving
- Find the centre of enlargement
- Functions
- Gradients
- Graph of quadratic and straight line, including the intersection
- Convert exact fractions to recurring decimals. Rationalising the denominator
- Lowest Common Multiple
- Multiplying out brackets
- Percentage change in context
- Proportion
- Ratios
- Relative frequency
- Set up and solve an equation
- Solve a linear equation with the unknown on both sides of the equation
- Solve a quadratic equation by factorising
- Solve linear inequalities in two variables by drawing straight lines and representing the solution set on a graph
- Standard Form
- Time, distance, speed, Use upper and lower bounds as appropriate in a calculation