

## Year 10 Summer

### Foundation

### Higher

Constructions, loci and bearing

- Construct perpendicular bisector of a line segment
- Construct triangles and other shapes
- Loci and region
- Bearing and scale drawing

Setting up, rearranging and solving equations

- Form and solve simple equations
- Identity
- Equations with unknown on both sides
- Equations involving brackets and fractions
- Linear equations and problem solving
- Substitution
- Change the subject of formula, including those with the subject on both sides
- Algebraic proofs
- Iteration

Quadratic equations: expanding and factorising

- Understand quadratic expressions
- Product of two linear brackets
- Square a linear expression
- Factorise simple quadratic expressions
- Difference between two-squares
- Solve quadratic equation by factorising
- Find the roots of a quadratic function algebraically
- Complete table of values and draw quadratic graphs
- Identify the line of symmetry of quadratic graphs
- Find solutions of quadratic function graphically
- Turning points of quadratic functions

Sequences

- Linear sequence
- Fibonacci sequence
- Nth term of arithmetic sequence
- Quadratic sequence
- Nth term of quadratic sequence
- Geometric sequence
- Sequences from real-life situations

Revision for end of year exams

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