Springwood High School

# Learning Journey Mathematics - Key Stage 4 Higher

Growth and decay | Gradient and area under a curve | Iterations | Proof | Algebraic fractions

Quadratic sequences | Circle theorems and geometry | Functions | Graph transformations | Inequalities (graphical)

Quadratic inequalities | Vectors | Further trigonometry | **11** | Similarity and congruence in 2D & 3D

Non right-angled triangles

Constructions in 2D and 3D, loci, maps and bearings | Advanced probability | Compound measures

Accuracy and bounds | Geometry reasoning and problem solving | Trigonometry in right-angled triangles

Perimeter, area and volume | Calculating missing side lengths and angles, with and without a calculator

Simultaneous equations | Direct and inverse proportion | Reasoning with data | Geometry reasoning and problem solving

Constructing and solving problems algebraically | Collecting, representing and analysing data | Angles, polygons, parallel lines

Solving and sketching

Quadratics | Straight line graphs | Rearranging formulae | Recurring decimals | Surds and Indices | **10**

Equations of straight lines between two points, perpendicular lines | where the unknown occurs more than once | Fractional and change of base problems, surds