Springwood High School

Learning Journey Mathematics - Key Stage 4 Foundation

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Accuracy and bounds

Error intervals using upper and lower bounds.
Calculating with upper and lower bounds

Proof

Graphs

Equations of straight lines between two points.
Recognise, sketch and interpret graphs

Simultaneous equations

Construct and solve two linear equations with two unknowns, graphically and algebraically

Vectors

Trigonometry in right-angled triangles

Calculating missing side lengths and angles, with and without a calculator

Advanced geometry

Circles, arcs, sectors, cylinders, spheres, pyramids

Similarity and congruence in 2D

Constructions in 2D and 3D, loci, maps and bearings

Solving loci problems, draw and interpret scale diagrams/maps including using bearings

Compound measures

Speed, distance, time measures
Length, capacity, mass measures
Pressure measures, Density measures

Geometry reasoning and problem solving

Perimeter, area and volume

Advanced probability

Tree diagrams and conditional probability

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Quadratic equations

Factorising and solving quadratic equations

Geometry reasoning and problem solving

Angles, polygons, parallel lines

Reasoning with data

Collecting, representing and analysing data