

Mathematics

Multiplicative Reasoning -

Direct & inverse proportion, density, pressure.

Geometric reasoning -

Angles, parallel lines, polygons, circle theorems (H), Pythagoras, trigonometry.

Transformations -

Transforming shapes, Trigonometric graphs (H).

Probability - Sample spaces, Venn diagrams, product rule (H), scatter graphs.

Graphs - Gradients, straight line graphs, perpendicular lines (H), non-linear graphs, circle equations (H), tangents (H).

Using Graphs - Conversion graphs, real life graphs, area under a graph (H).

Data - Collecting data, sampling, diagrams.

Non-Calculator Methods -

Rational & irrational numbers, probability (H).

Angles & Bearings -

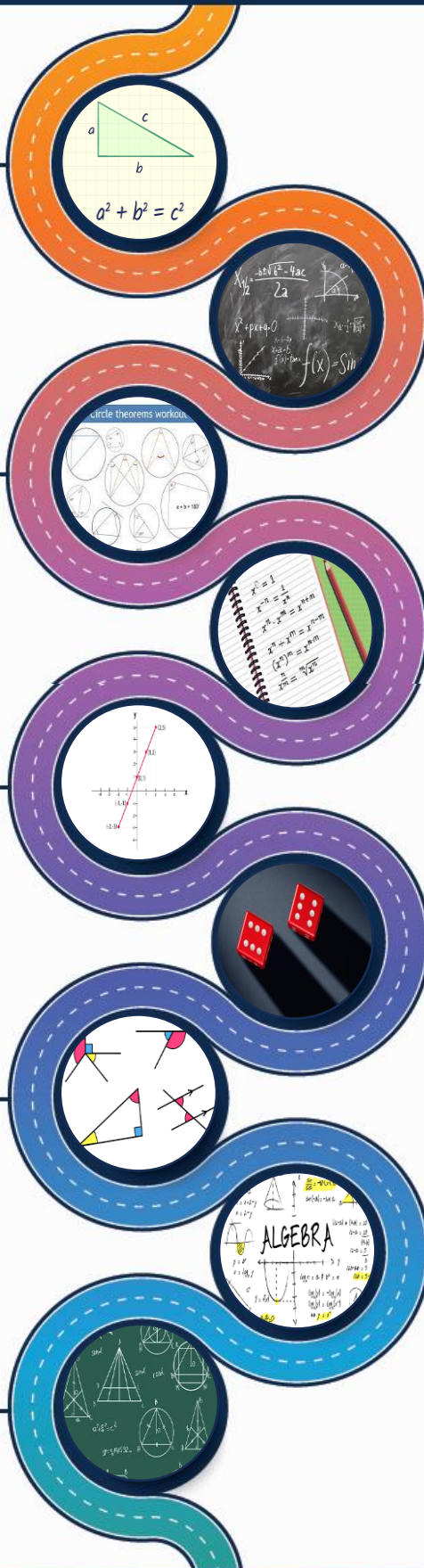
Scale drawings, measure and read bearings.

Circles - Parts of circles, area, circles, cylinders, cones, spheres, circle theorems (H).

Congruence & Similarity

- Scale factors, angles & enlargements.

Trigonometry - Use of ratios, Cosine and Sine rules (H).



Algebraic Manipulation - rearranging, iteration (H).

Functions - Composite and inverse functions, graphs of quadratic functions, quadratic inequalities (H).

Types of Number & Sequences -

Factors, multiples, primes, nth term, quadratic sequences (H).

Indices & Roots - Rules of indices, standard form.

Manipulating Expressions - Algebraic fractions, form & solve equations and inequalities.

Vectors - Notation, drawing, proof (H).

Ratios & Fractions - Ratios & graphs.

Percentage & Interest - Compound interest, growth & decay, iteration.

Probability - Tree diagrams, Venn diagrams, conditional probability (H).

Equations & Inequalities -

Straight line graphs, solving quadratics, quadratic inequalities (H).

Simultaneous Equations - Both linear, one quadratic (H).