## Year 10 & 11 (F)

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#### Equations & Inequalities

How do we generate terms in a sequence? What is a linear sequence? How can we solve equations two step equations involving brackets? What are compound inequalities and how can we show them?

#### Ratio

How can we divide quantities when given one amount? How do you combine two ratios? What does direct proportion look like on a graph?

#### Right Angled Triangles

What is the hypotenuse of a right angles triangle? How do we use sine, cosine and tangent ratios to find missing sides? How would you use these ratios to find a missing angle?

#### Equations & Graphs

How can we expand a pair of double brackets to form a quadratic expression? What will a linear and quadratic function look like on a graph?

#### Constructions

Can you identify a shapes vertices and edges? What is the plan and elevation of a 3D shape? How do you make accurate drawings of a triangle? Can I bisect an angle or a line?



## KS4 Maths Curriculum

#### Probability

How do we complete twoway tables? What is relative frequency? How do you complete a Venn Diagram? What is an independent event?

#### Multiplicative Reasoning

Describe the difference between simple and compound interest? How do we calculate average speed?

#### Averages

What are the mean, mode, median and range from a list of data? What is a grouped frequency table? Why is the mean from a group ed frequency table only an estimate of the actual mean?

#### **Further Algebra**

What is a simultaneous equation? What is represented by the point of intersection of two simultaneous equations?

#### Loci and Bearings

Can I draw loci for a path of points that follow a given rule? Can I find and use 3 figure bearings and use angles in parallel lines to find missing bearings?

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#### Vectors

What is a vector? How do I draw a vector on a grid? Can I ( write one vector in terms of <u>a</u> and <u>b</u>? How would I identify a parallel vector? - - -

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#### Perimeter, Area & Volume

Can I calculate the circumference of a circle and apply it to solve problems? How do you calculate the area of a circle? What is volume? Can I use volume to workout surface area?

# Straight Lines & Coordinate Geometry

Can I recognise a linear graph from its function? How do I find the midpoint of a line segment? Can I find the gradient of a line? How do I know if two lines are parallel/perpendicular? Can I find the equation of a line?

### KS4 Maths Curriculum

#### **Standard Form**

Can I multiply and divide numbers in standard form? Can I add and subtract numbers in standard form? Am I able to solve standard form worded problems in context?

#### Similarity & Congruence

Can I describe the differences between similarity and congruence? Can I find the missing side lengths on various similar shapes?

