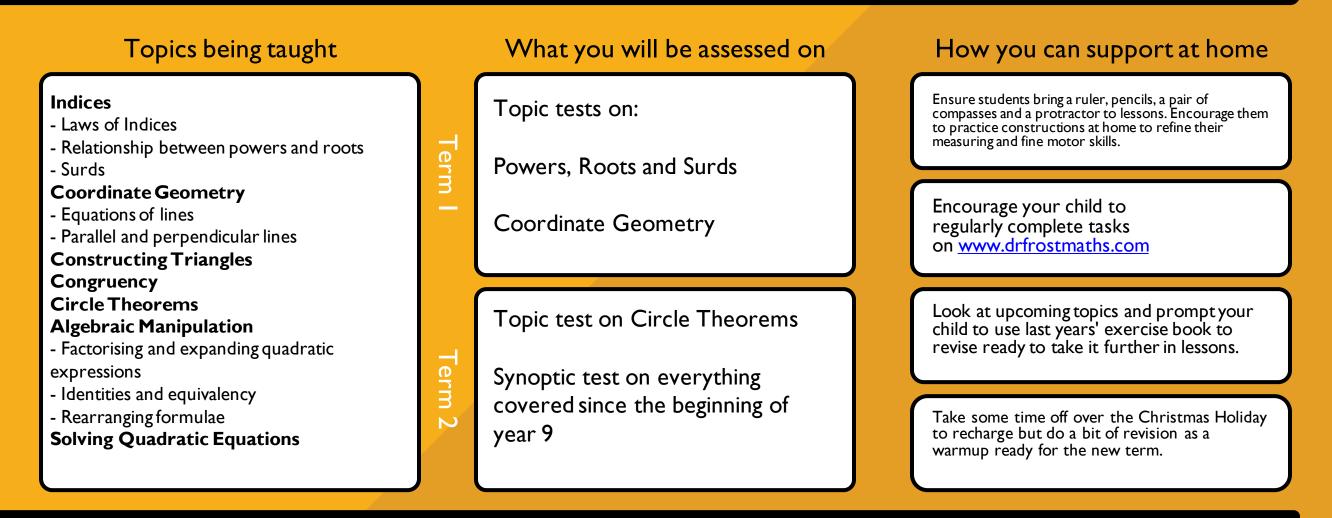
Subject:

Mathematics



KS4 - Year 10 Curriculum Overview



CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Topics being taught

Probability

- Combined events
- Tree diagrams - Sample space diagrams

What you will be assessed on

Topic tests on:

Probability

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How you can support at home

Retry Stepping Stones from previous years as a form of revision. Have they improved since they last completed it? Can they still remember that topic?



Autumn Term

- Venn diagrams - Choices and Outcomes Sets and Set Notation Histograms Sequences - Linear, quadratic and geometric - Iteration **Ratio and Proportion** Similarity - Linear Scale Factors

Trigonometry

- Exact trigonometric values
- Sine Rule and Cosine Rule
- Area of a triangle

Scale Drawings and Bearings

Ratio and Proportion

Topic tests on:

- Trigonometric Ratios and Exact Trigonometric Values
- Sine Rule, Cosine Rule, Scale Drawings and Bearings

Synoptic test on everything covered since the béginning of year 9

Make use of revision guides and workbooks.

Ensure students bring a scientific calculator to lessons.

Use websites like <u>www.mathsgenie.co.uk</u> to practice exam style questions.

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Topics being taught

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- Quadratic Curves - Turning Point and Intercepts Inequalities - Solution set on a number line - Inequality Regions - Quadratic Inequalities Area and Volume Scale Factors Pythagoras' Theorem in 3D **Trigonometry in 3D** Limits of Accuracy - Rounding - Upper and Lower Bounds (Error Intervals) Surface Areas and Volumes Vectors - Vector Arithmetic - Vector Geometry **Compound Measures** - Speed, Pressure, Density and Hourly Pay
- Compound Interest
- Growth and Decay
- Rate of Change
- Real-Life Graphs

What you will be assessed on

Topic tests on Quadratic Curves and Inequalities

Synoptic assessment on everything covered since the beginning of year 9

Topic tests on:

Vectors

Compound Measures and Real-Life 5 Graphs

How you can support at home

Use <u>www.desmos.com</u> to help with the properties of quadratic curves and inequality regions.

Support your child in the run up to their exams. Keep them in a positive state of mind with a healthy work/life balance.

Use the resources teachers have provided on Teams or have handed out to students.

Encourage your child to regularly practise on <u>www.drfrostmaths.com</u>