Subject:

Mathematics



KS4 - Year II Curriculum Overview

Topics being taught

Algebraic Fractions
Rearranging Formulae
Cumulative Frequency Curves
Box Plots

Simultaneous Equations

- Two linear equations
- One linear and one quadratic
- Graphical methods

Surds

Autumn Term

Equation of a Circle
Exact Trigonometric Values
Trigonometric Graphs
Functions

What you will be assessed on

Topic tests on:

Algebraic Fractions

Simultaneous Equations

Exact Calculations using Surds

Topic test on Trigonometric Graphs and Transformations of Graphs

Mock exams testing all content taught since the beginning of year 9

How you can support at home

Encourage your child to regularly complete tasks on www.drfrostmaths.com

Look at the year 11 or year 10 curriculum on www.drfrostmaths.com and create custom tasks or worksheets to practise. Theis will help develop better understanding and improve retention.

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?

Take some time off over the Christmas Holiday to recharge but do a bit of revision as a warmup ready for the new term.

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Topics being taught

Direct and Inverse Proportion Non-linear Graphs

- Quadratic
- Cubic
- Exponential
- Reciprocal

Transformations of Graphs

- Reflections
- Translations
- Stretches
- Invariant Points

Algebraic Proof

- Proving equivalency (identities)
- Using expressions to prove statements

What you will be assessed on

Topic test on Algebraic Proof

Mock exams on all content taught since the beginning of year 9.

How you can support at home

Help your child establish a routine for revision. Help them keep organised and ensure they spread revision across their subjects.

Encourage your child to attempt past exam papers in exam conditions and compare against model answers.

Help your child prepare for the run up to the final exams. Having a list of topics and ticking them off once your child has revised them could be useful.

Use <u>www.desmos.com</u> to help remind you of the shape of curves and their equations.

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Topics being taught

Sequences **I**teration

- Approximating solutions

Fractions

Ratio and Proportion

Percentages

TransformationsEnlargements and Scale Factors

- Reflections
- Rotations
- Translations

Standard Form Index Form Properties of Angles Constructions and Loci

What you will be assessed on

Topic tests on:

Sequences

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Fractions, Ratio and Proportion

Topic test on Standard Form and Index Form

The final GCSE exams

How you can support at home

Use websites

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

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 provide on Teams or hand out in lessons.

Consider inviting friends over and having revision parties! Collaboration and support can help revision and keep up morale.

Summer Ter