Subject:

Mathematics

Term

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KS 4 - Year 9 Curriculum Overview

Topics being taught

Sequences

- Arithmetic and Quadratic

Rates

- Graphs involving rates of change
- Compound units e.g. Speed, Density

Measures

Autumn Term

- Sectors, Cylinders and Spheres
- Bounds and limits of accuracy

Fractions, Decimals and %

- to include successive change

Ratio and Proportion

- Direct and Inverse Proportion

Coordinate Geometry

- Parallel and perpendicular lines
- Graphs of quadratic & cubic functions

What you will be assessed on

Topic tests on each topic

Synoptic test on everything up to Fractions, Decimals and %

Topic tests on each topic

How you can support at home

Ask your child about their *DrFrost or MyMaths* Homework they get each week

Write flash cards for all the formulae in the Measures topic

Use Corbett Maths for revision https://corbettmaths.com/

Use DESMOS, a free online graphical software to draw common functions

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Topics being taught

Indices and Surds

- Standard Form
- Negative and Fractional Indices
- Manipulation with surds

Statistics

- Grouped frequency
- Cumulative Frequency
- Box plots

Equations and Inequalities

- Graphical and algebraic methods
- Simultaneous Equations

Probability

- Frequency trees
- Tree Diagrams

What you will be assessed on

Topic tests on each topic

Synoptic test on everything up to Statistics

Topic tests on each topic

How you can support at home

Remind your child to show all steps of working in maths problems

Discuss misleading statistics you see in news articles

Use the reflections sheets from previous Milestones to revise key topics you have identified.

Watch a YouTube Maths video by Hannah Fry or Marcus du Sautoy

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

Topics being taught

Transformations - Congruency

- Similarity

Trigonometry

- Pythagoras' Theorem
- Trigonometric ratios

Functions

- Simplifying algebraic expressions
- Quadratic expressions
- Solve quadratic equations by factorising
- Change subject of a formula
- Graphs of quadratic functions
- Solve equations using trial and improvement

What you will be assessed on

Topic tests on each topic

Synoptic test on everything up to Trigonometry

How you can support at home

Ask your child about the homework in their blue books and the reflection comments they are writing in green pen.

Encourage your child to have a first go at a Higher Maths GCSE paper and see how many questions they can do

Ask your child to explain what Trigonometry is.

For Maths enrichment, do an intermediate UKMT challenge: https://www.ukmt.org.uk/

Summer Teri