

Year 10 Higher – Maths

Summary of curriculum

The Smiths Wood Year 10 Mathematics curriculum is where pupils begin GCSE study in earnest, following the Edexcel Specification.

The curriculum is split into foundation and higher tiers, although where possible students on both tiers study broadly the same topic at the same time to allow movement between tiers where appropriate.

Do-Now activities focus on recall of previous learning.

A mock exam in January and at the end of the year aids pupils' preparation for GCSE.

Main topics/skills

Higher tier units of study:

Unit 5 – Pythagoras and Trigonometry

Unit 6 – Graphs

Unit 7 – Perimeter, area and volume

Unit 8 – Transformations and constructions

Unit 9 – Quadratics equations and simultaneous equations

Unit 10 – Probability

Unit 11 – Proportion

Unit 12 – Similarity and congruence

Unit 13 – Sine and cosine rules

Unit 14 – Statistics – sampling, cumulative frequency and histograms

Unit 15 – Expanding 3 brackets, graphs of quadratics, cubics and circles

Assessment throughout the year

Students are set by attainment based on their end of year 9 assessment and GL assessment and will be placed in a class broadly following either the Higher, Core or Support objectives from the learning journey, but with no ceiling on their attainment.

At the end of year 10 students sit a full mock exam in the hall in preparation for year 11.

How parents can support their child's learning from home.

Your child should now be taking responsibility for ensuring that they have *learned* and remembered the content covered. Stress the need to complete additional practice at home or to ask for extra support from their teacher if they are unsure of anything.

Useful websites

Homework is set weekly on
www.sparxmaths.com
www.corbettmaths.com
www.bbc.co.uk/bitesize
www.piximaths.com