Overview

Students study topics in each of the five key strands in mathematics: Number, Algebra, Geometry, Ratio & Proportion and Statistics & Probability. Each strand builds on their prior learning from Years 7, 8, 9 and 10.

We will focus on building reasoning and problem-solving skills alongside exam technique to increase pupil independence in preparation for their Mock exams.

Autumn

Unit F27: Mixed Proportion – solving problems with recipes, similar shapes, exchange rates and best value

Unit F28 – Fractions and Percentages – reviewing key fractions, decimals and percentages skills including comparing and applying different methods, percentage change, reverse percentages and compound interest and depreciation

Unit F29 – Algebra Review 1 – solving equations, simplifying expressions including with indices, expanding and factorising single brackets, index laws, nth term and plotting graphs with a table of values

Unit F30 – Mixed Ratio – learning how to spot the different styles of ratio questions and problem solve through sharing ratio and combining ratios

Unit F31 - Perimeter, Area and Volume - recapping how to find the area and perimeter of a range of 2D shapes and applying these skills to functional questions

Unit F32 – Working with Circles – practicing finding the area and circumference of circles and applying these skills to functional problems

Unit F33 – Construction and Loci – perpendicular bisectors, angle bisectors and loci

Assessment:

Mock 1 takes place in Half Term 2.

Students will be informally assessed every lesson using questioning, mini whiteboards and marking of independent work.

There will be fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

Spring

Unit F34 – Angle Reasoning – apply angle rules to multi-step problems including within parallel lines and polygons and giving full lists of reasons

Unit F35 – Mixed Data and Probability – reviewing pie charts and Venn diagrams and calculating probabilities and averages from frequency table

Unit F36 – Algebra Review 2 – solving simultaneous equations, solving inequalities, expanding and factorising double brackets and using y=mx + c

Unit F34 – Right Angled Triangles – use both Pythagoras' theorem and Trigonometric ratios to find missing sides or angles within right angled triangles

Classes follow a bespoke Revision Programme based on identified areas of need to prepare them for the final GCSE assessment.

Assessment:

Mock 2 takes place in Half Term 4.

Students will be informally assessed every lesson using questioning, mini whiteboards and marking of independent work.

There will be fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

Summer

Classes follow a bespoke Revision Programme based on identified areas of need to prepare them for the final GCSE assessment.

Assessment:

Students will be informally assessed every lesson using questioning, mini whiteboards and marking of independent work.

There will be an End of Topic Review at the end of each unit.

There will be fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

Useful resources for supporting your child at home:

Videos on Sparx (www.sparxmaths.uk)

Videos on Corbett Maths (Videos and Worksheets – Corbettmaths)

CGP GCSE Maths Edexcel Revision Guide (link here)

REVISE Pearson Edexcel GCSE (9-1) Mathematics (link here)

Homework:

Year 11 homework will be set once a week.

In Week B homework will be to complete a shadow paper in preparation for their Pre Seen exam. In week A their homework will be selected exam questions based on feedback from their Pre Seen exam.