

FOUNDATION UNITS

Number

Students develop their calculation strategies, including those with fractions and negative numbers. They extend their understanding about how fractions, decimals, and percentages interconnect. Students explore properties of numbers, including factors, multiples, squares, primes and cubes.

Algebra

Students develop their ability to manipulate algebraic expressions and solve equations. They explore connections between sequences, functions, and graphs.

Geometry and Measure

Students investigate and apply angle properties of 2D shapes and parallel lines. They transform 2D shapes and calculate areas, perimeters, volumes, and surface areas. Students also develop their understanding of a variety of measures.

Probability and Statistics

Students develop strategies for collecting, presenting, and analysing data. They also calculate theoretical and experimental probabilities.

COURSEWORK DEADLINES/EXAMS

WHEN

YEAR 11 GCSE PREP EXAM 1	NOVEMBER 2020
YEAR 11 GCSE PREP EXAM 2	MARCH 2021
YEAR 11 GCSE EXAM	JUNE 2021
YEAR 10 ASSESSMENTS	THROUGHOUT
YEAR 10 END OF YEAR EXAM	MAY/JUNE 2021
YEAR 9 ASSESSMENTS	THROUGHOUT
YEAR 9 END OF YEAR EXAM	MAY/JUNE 2021

HIGHER UNITS

Number

Students develop their calculation strategies, including those with fractions, percentages and numbers written in standard form. They extend their knowledge of indices.

Algebra

Students develop their ability to manipulate algebraic expressions and solve equations and inequalities. They explore connections between equations and graphs. Students perform calculations relating to direct and inverse proportion.

Geometry and Measure

Students investigate and apply circle theorems. They transform 2-D shapes and calculate areas, perimeters, volumes, and surface areas. Students also solve problems using trigonometry.

Probability and Statistics

Students develop strategies for collecting, presenting, and analysing data. They also calculate theoretical and experimental probabilities.

Exam Board and Specification

We follow the Edexcel GCSE syllabus which places a significant emphasis on students' problem-solving skills. Students will sit the exam at either foundation or higher level.

Revision

Useful websites for revision are www.mrbartonmaths.com and www.corbettmaths.com

Equipment

Students should have a pen, pencil, ruler and a scientific calculator for every lesson.

Contacts

If you have any queries, please telephone the school or email me at dthomas-hay@churchillschool.co.uk