

MATHEMATICS YEAR 13 SCHEDULE

MODULES/UNITS

Core 1

Linear graphs and equations; surds; inequalities; equations of circles; and the introduction of calculus.

Core 2

Indices; transformations of graphs; arithmetic and geometric sequences; trigonometry; binomial expansion; exponentials; and calculus.

Core 3

The modulus function; transformations of graphs; trigonometry; natural logarithms; calculus; numerical methods and proof.

Core 4

Algebra and functions; coordinate geometry; sequences and series; trigonometry; calculus and vectors.

Decision 1

Graphs and networks; linear programming and mathematical modeling.

Mechanics 1

Resolving forces, equations of motion, vectors and projectile motion.

COURSEWORK DEADLINES/EXAMS

WHEN

MOCK EXAMS C3 AND M1	JANUARY
FINAL EXAMS: C3, C4 AND M1	MAY/JUNE

PROJECTS/SCHEME OF WORK/TOPICS

DURING

YEAR 13: CORE 3 AND MECHANICS 1	AUTUMN TERM
YEAR 13: MECHANICS 1 AND CORE 4	SPRING TERM
YEAR 13: CORE 4 AND REVISION	SUMMER TERM

OTHER INFORMATION

Exam Board and Specification

We follow the AQA syllabus. The AS award comprises of two pure mathematics modules (Core 1 and Core 2) and one of the 'applications of mathematics' units (Decision 1 or Statistics1). The A2 award is completed by studying Core 3, Core 4 and Mechanics 1.

Textbooks

We use the Cambridge SMP series of textbooks.

Homework and Revision

Homework tasks often involve completing exercises from the above textbooks. Past papers are available to download from www.aqa.org.uk. Another useful website for revision and past papers is www.mrbartonmaths.com.

Contacts

If you have any queries, please telephone the school or contact us on pwillson@samuelward.co.uk.