

SUBJECT: MATHEMATICS

HEAD OF DEPARTMENT: Mr T Beedell

KS4 COORDINATOR: Mrs E Cole

SYLLABUS NUMBER:

Edexcel GCSE Mathematics (9-1) 1MA1

SYNOPSIS OF CONTENT

The following topic areas are covered:

1. Number
2. Algebra
3. Ratio, Proportion and Rates of change
4. Geometry and Measures
5. Statistics and Probability

The assessment objectives require pupils to:

- apply techniques;
- reason, interpret and communicate mathematically;
- solve problems in a variety of contexts.

RESOURCES

Textbooks:

CGP Mathematics for GCSE Higher level
CGP Mathematics for GCSE Foundation level

Set 1 uses the Higher version whilst sets 3-4 use the Foundation one. Set 2A will tend to use Higher and set 2B will tend to use Foundation.

SETTING ARRANGEMENTS

Typical target Grades:

| | |
|---------|-----|
| Set X1A | 7-9 |
| Set Y1B | 7 |
| Set Y1C | 6 |
| Set 2 | 4-6 |
| Set 3 | 4 |
| Set 4 | 2-3 |

ASSESSMENT

There are two entry tiers:

Higher
Foundation

Both tiers are assessed by three papers, each of which is 1 hour 30 mins in length. There is one non-calculator paper and two calculator papers.

There is no coursework element.

SELF-STUDY ADVICE

“Doing” mathematics is the most effective way to study/revise for it, in particular utilising past exam questions. Reading notes is not sufficient. Prepare for exams well in advance - not the week before!

A range of revision guides/workbooks are available and useful to support self-study along with lots of good websites, including: Mathswatch (login), Corbettmaths and Mathsgenie.

Learn the formulas as these are not provided to you in the exam.

EXTRA-CURRICULAR OPPORTUNITIES

UKMT - national mathematics competition.

Maths Study Club - students must come prepared with problems that they need help with.

An excellent website to use is

<https://www.cemc.uwaterloo.ca/resources/potw.php>
(grade 9/10 problems are most appropriate but others may be suitable too)