

## **Maths Department Curriculum Information**

Whilst being useful in other subjects, Mathematics is a subject close to God's heart in its own right, and has a sense of awe and wonder to enjoy. Mathematics is vitally important to all children and adults. We use Mathematics all the time and in everything we do. Mathematics will help students to solve problems in everyday life and have a greater understanding of the things around them. A truly Christian atmosphere exists in the Mathematics Department and hard work is rewarded and valued at all times.

### **KS3 Courses**

At Key Stage 3 we follow the National Numeracy Strategy, using the Framework Maths textbooks as one resource. The students are also prepared for the Key Stage 3 SATs. All pupils need a calculator; pupils in the highest sets will need a scientific calculator in Year 9. Pens, a pencil and ruler must be brought to every lesson. Pupils must own a protractor and a pair of compasses, but notice will normally be given when these will be required in lessons. Pupils have individual copies of the relevant homework book, which they take out of the library in September and keep at home until July.

### **YR 7**

#### **Outline of scheme of work**

Classes are set on entry using Year 6 SAT results. Some changes are made when the CAT test results arrive at the end of the first half-term.

- Number
- Algebra
- Shape, Space and Measure
- Handling Data
- Investigational task
- Mental Mathematics

### **YR 8**

#### **Outline of scheme of work**

Students are set within Mathematics according to their Year 7 Mathematics results, Year 6 SATs and CAT results.

- Number
- Algebra
- Shape, Space and Measure
- Handling Data
- Investigational task
- Mental Mathematics

### **YR 9**

#### **Outline of scheme of work**

Students are set within Mathematics according to their Year 8 Mathematics results, Year 6 SATs and CAT results.

- Number
- Algebra
- Shape, Space and Measure
- Handling Data
- Preparation for SATs Examinations
- GCSE Module 1, Data Handling

### **Homework in the department at KS3**

At Key Stage 3 pupils receive one homework per week, according to a whole-school homework timetable. We encourage students to find out when they don't know what to do. For this reason, homework will hardly ever be set one day to be completed by the next.

## **KS4 Courses**

At Key Stage 4, we prepare students for a Modular GCSE examination. There are two tiers: Higher tier covering Grades A\* to D and Foundation tier covering Grades C to G. There are exams in November and June of Year 10 and June of Year 11. The examination course includes two pieces of coursework worth 20% of the final mark. All pupils need a calculator, pupils in the higher tier sets will need a scientific calculator. Pupils must own a protractor and a pair of compasses, but notice will normally be given when these will be required in lessons. Pupils have individual copies of the relevant homework book, which they take out of the library in September and keep at home until July.

## **YR 10**

### **Outline of scheme of work**

Students are set within Mathematics according to their Year 9 SATs and CAT results.

- Module 1 Data Handling
- Module 2 Data Handling Coursework
- Module 3 Number and Algebra
- Module 4 Number and Algebra Coursework

## **YR11**

### **Outline of scheme of work**

- Module 5 Algebra and Shape, Space and Measure

## **Homework in the department at KS4**

At Key Stage 4 pupils receive two homeworks per week, according to a whole-school homework timetable. We encourage students to find out when they don't know what to do. For this reason, homework will hardly ever be set one day to be completed by the next.

## **KS5 Courses**

At Key Stage 5, we prepare students for the AQA Mathematics AS and A2 examinations. Students are encouraged to have a Graphic Calculator and are given the opportunity to purchase one through the school at a discounted price. There is a textbook for each module, available from the school library.

AS level students are accepted with a Grade B or higher at GCSE.

There is a class of Year 12 students retaking GCSE Mathematics.

## **YR12 AS Mathematics**

### **Outline of scheme of work**

- Pure Core 1, examined in January
- Pure Core 2, examined in June
- Statistics, examined in June

## **YR13 A2 Mathematics**

### **Outline of scheme of work**

- Pure Core 3, examined in January
- Pure Core 4, examined in June
- Mechanics, examined in June

## **Homework in the department at KS5**

At Key Stage 5 pupils receive homework as decided by their teacher, but will always be expected to work between one lesson and the next. We encourage students to find out when they don't know what to do. For this reason, homework will hardly ever be set one day to be completed by the next.

**Enrichment activities within the department**

The most able in each Year are entered for the national Mathematics Challenge competition.

Mathematics clinics are held twice weekly.

Extra Curricular support provided for pupils absent during GCSE coursework.

**Additional resources**

There is free access to SamLearning, the online learning subscription service for GCSE and SATs.

There is opportunity to purchase revision guides, workbooks and practice examination papers through the department at very discounted rates.