

## **Science**

The Science department aims to give students a wider understanding of the world around them. We use a range of contextual activities to show where the science is used in everyday life. We also include activities to complement their work in maths. We try to use practical activities whenever possible to aid the learning of science.

### **Y11 will follow the OCR GCSE Biology**

#### **Autumn term: Biology**

#### **Y11: Community-level systems and Genes, inheritance and selection**

Ecosystems (B4.1.1-B4.1.8), Inheritance (B5.1.1-B5.1.8)

#### **Spring term: Biology**

#### **Y11: Genes, inheritance and selection and Global challenges**

Natural selection and evolution (B5.2.1-B5.2.4), Monitoring and maintaining the environment (B6.1.1- B6.1.6)

#### **Summer term: Biology**

#### **Y11: Global Challenges**

Feeding the human race (B6.2.1-B6.2.6), Monitoring and maintaining health (B6.3.1-B6.3.13), Non-communicable diseases (B6.3.14-B6.3.18)

### **Y10: will follow the OCR Biology GCSE science award during the course we will also be covering practical skills such as: Microscopy, Enzymes and Photosynthesis**

#### **Autumn term: Cell level systems**

Cell structures (B1.1.1-B1.1.4), what happens in cells (B1.2.1-1.2.4), Respiration (B1.3.1-B1.3.3) and Photosynthesis (B1.4.1-B1.4.4)

#### **Spring term: Scaling up**

Supplying the cell (B2.1.1-B2.1.6) and the challenge of size (B2.2.1-B2.2.6)

#### **Summer term: Organism-level Systems**

The nervous system (B3.1.1-B3.1.5), the endocrine system (B3.2.1-B3.2.5) and maintaining internal environments. (B3.3.1-B3.3.5)

### **KS4: will following the OCR GCSE Biology**

KS4 will follow a two year rolling program that will be in line with either the Y10 or Y11 on a 2 year rolling program. The focus will be around the foundation tier work.

**KS3: Following the KS3 syllabus**

KS3 will be covering topics such a Lab safety, Cells, the solar system, New life, renewable and non-renewable energy.

Rob Mirrlees

Science Teacher