

## Curriculum information for the Science Department.

### Head of Department:

Kirsty Spencer

### Curriculum studied in Year 7.

- Living systems
- The particulate matter of nature
- Forces and motion
- Diet and health
- Atoms, elements and compounds
- Genetics and evolution
- Reactions
- Electricity and electromagnetism

### Curriculum studied in Year 8.

- Photosynthesis, respiration and circulation
- Acids and alkalis
- Energy
- Reproduction and growth
- Waves
- Materials and everyday chemistry
- Ecosystems
- Earth and atmosphere

### Courses currently offered in Key Stage 4.

#### GCSE Science (Trilogy)

#### Curriculum Content in Year 9

- Cell biology
- Energy changes
- Organisation
- Organic chemistry
- Atomic structure and the periodic table
- Chemical analysis
- Energy
- Infection and response
- Bonding, structure and properties of matter
- Quantitative chemistry
- Bioenergetics

### **Curriculum Content in Year 10**

- Chemical changes
- Atomic structure
- Electricity
- Using resources
- Homeostasis and response
- The rate and extent of chemical change
- Particle model of matter
- Inheritance, variation and evolution
- Forces
- Chemistry of the atmosphere

### **Curriculum Content in Year 11**

- Ecology
- Waves
- Magnetism and electromagnetism
- GCSE Revision

### **Extra-curricular activities available.**

#### **Key Stage 3**

Big Bang Science Fair

#### **Key Stage 4**

STEM days with local Universities

### **Enrichment opportunities available.**

#### **Key Stage 3**

- Science intervention

#### **Key Stage 4**

- GCSE science intervention