**EXAMINING BOARD:** OCR

**TITLE:** 21st Century Science

**ACCREDITATION:**

There are two science GCSEs pupils can study at All Hallows. Both are graded from 1-9.

Combined science B allows pupils to gain 2 GCSEs. The Separate science pathway allows pupils to gain 3 GCSEs from 1-9 and is aimed at the more able pupils.

**NATURE OF THE SUBJECT:**

In these subjects you will develop your understanding of scientific ideas. You will use your detailed knowledge to consider how science is applied and used in the home, in industry and in the environment. You will plan and carry out investigations and learn to evaluate your data, using ICT where appropriate. You will use your scientific knowledge to discuss the benefits and drawbacks of scientific and technological developments. These subjects allow learners to recognize the impact science has on everyday life and allows them to gain an insight into the world in which we live.

**CONTENT:**

**Combined Science**

The theme of the course is ‘How Science Works’ and the modules are:-

You and your genes Air and water

Keeping healthy Material choices

Living together Chemical patterns

Using food Material choices

The human body Making useful chemicals

Life on Earth Chemicals of the natural environment

Matter Radiation and waves

Sustainable energy Electrical circuits

Explaining Motion Radioactive materials

Each module includes many practical areas and pupils expected to recognise the impact of science on society and the future.

**ASSESSMENT**

3 x 105 minute end of module papers (26.4% x 3 of total marks) (All taken in May/June)

1 X 105 minute paper (20.8% of total mark) comprising of all science specialism's with practical content

**Separate Sciences**

**Biology:**

You and your genes

Keeping healthy

Living together –food and ecosystems

Using food and controlling growth

The human body –staying alive

Life on Earth –past, present and future

Ideas about Science

Practical Skills

**Assessment:** This consists of 2 X 105 minute exams each comprising 50% of the total marks

**Chemistry:**

Air and water

Material choices

Chemical patterns

Material choices

Making useful chemicals

Chemicals of the natural environment

Ideas about Science

Practical Skills

**Assessment:** This consists of 2 X 105 minute exams each comprising 50% of the total marks

**Physics:**

Matter

Radiation and waves

Sustainable energy

Electrical circuits

Explaining Motion

Radioactive materials

Ideas about Science

Practical Skills

**Assessment:** This consists of 2 X 105 minute exams each comprising 50% of the total marks

Please see Mrs Lindley-Clapp (Head of Science).