

Mulberry

Academy Woodside

CORE SUBJECTS: GCSE Separate Science - Physics

HEAD OF DEPARTMENT

Mr G Mason

EXAM BOARD

Edexcel

BREAKDOWN OF MARKS

Paper 1 - 50%

Paper 2 - 50%

The score from both papers are combined to give you an overall score, which then gives you your grade.

Each paper is out of 100 marks.

Each paper also has two extended answer 6 mark questions, which are worth 12% of your overall grade.

SKILLS

Ability to study independently
Application of prior knowledge
Application of knowledge to unfamiliar situations
Calculations and other mathematical skills such as graph drawing
Carry out practical work to a high standard
Evaluating experimental procedure and evidence
Make links between different subject areas
Organisation

VITAL INFORMATION

If you are interested in studying Separate Science then you should speak to either your class teacher, head of department, or Year 10 and Year 11 students who currently study Separate Science. You will be entered for Biology, Chemistry and Physics; you cannot pick just one of these subjects. The course is also demanding as it contains content which has moved down from A-Level. The exam papers are longer than Combined Science- 1 hour 45 minutes compared to 1 hour 10 minutes

CURRICULUM CONTENT

The curriculum covers a broad range of content that touches on many different aspects of Physics.

The curriculum focuses on key concepts such as forces, motion and energy. It will also expand on the work that you have previously done in Years 7 through to 9.

You will learn about the electromagnetic spectrum, light and sound waves; radioactivity including nuclear power and nuclear medicine; astronomy; magnetism and its importance in electricity generation and how the properties of the three states of matter relate to temperature and pressure.

There is additional content that you will cover when compared to Combined Science.

You will also study core practicals which you are required to have either carried out or seen. The core practicals will get you to apply your knowledge to unfamiliar situations.

There will also be a lot of mathematics involved, particularly rearranging and solving equations, unit conversions and applying equations to unfamiliar situations

CURRICULUM & CAREER PROGRESSION

NEXT STEPS

A-Level Physics
A-Level Astronomy
A-Level Economics
BTEC Level 3 Applied Science
BTEC Level 3 Aeronautical Engineering
BTEC Level 3 Engineering
BTEC Level 3 Mechanical Engineering

CAREERS

Aeronautical Engineer
Astronomer
Electrical Engineer
Engineer
Laboratory Technician
Laser Technician
Materials Scientist
Science Teacher
Science Writer