



Science

Science is essentially the study of the world around us. We live in an increasingly complex scientific and technological society, and science teaching has a vital role to play in enabling and encouraging pupils to make informed choices in everyday situations based on sound scientific principles. Here at CHS we aim to broaden the Scientific understanding of all pupils through the use of active learning strategies. Science is a practical subject by its nature and we incorporate practical activities to enhance pupil experiences and to develop skills such as problem solving, managing information and working with others.

Key Stage 3

During the 3 years of KS3, pupils study a range of topics covering the main areas of science. There are around 7 units per year including topics such as Growing Up (Biology), Acids and Alkalis (Chemistry) and Electricity and Magnetism (Physics). Most pupils will continue with GCSE science after KS3 and this course provides a good background as well as a scientific knowledge of how the world around us works.

Pupils will be taught to carry out practical work safely, work with others and use evidence from practical investigations to answer problems.





Key Stage 4

Single Award Science

The course offers all GCSE grades up to A*. There are 3 modular exams worth 25% each over 2 years (Biology, Chemistry and Physics). Practical Skills unit is externally assessed and is comprised of a practical skills assessment worth 7.5% and an external written exam worth 17.5%.

What will I study?

Students will study the new CCEA Specification comprising of a wealth of topics from all three science disciplines: Biology, Chemistry and Physics.

Modular exams are taken in February of Year 11, November of Year 12 and May of Year 12.

Double Award Science

Double Award Science covers extensive topics from Biology, Chemistry and Physics and allows pupils to progress to study Science at KS5. It involves practical investigations and application of knowledge. It prepares pupils for the Scientific Age within which we are constantly evolving. Pupils will sit modular exams during Year 11 and Year 12 in Units B1, C1 and P1, and will then have 3 terminal exams at the end of year 12 in each Units B2, C2 and P2. Practical skills will be assessed through 3 practical activities followed by a written external examination.



What will I study?

Biology:

Unit B1: Cells, Living Processes
and Biodiversity

Unit B2: Body Systems, Genetics,
Microorganisms and Health

Chemistry:

Unit C1: Structures, Trends,
Chemical Reactions, Quantitative Chemistry
and Analysis.

Unit C2: Further Chemical Reactions, Rates and Equilibrium, Calculations and
Organic Chemistry.

Physics:

Unit P1: Force and Motion, Energy, Moments, Density, Kinetic Theory,
Radioactivity and Nuclear Fission/Fusion.

Unit P2: Waves, Light, Electricity, Magnetism and Electromagnetism and Space
Physics.





Castleberg High School

A High Performing, Non-Selective, Post Primary School