

## Content

Our science specification follows the combined science pathway with students learning Biology, Chemistry and Physics as topics each cycle.

Topics covered within each subject are:

Biology will cover, cells and control, genetics, natural selection, health and diseases, plant structures, animal controls, homeostasis, exchange, transport and ecosystems.

Chemistry will cover, states of matter, purification, atomic structure, the periodic table, acids and alkalis, mass calculations, electrolytic processes, rates of reaction, chemical changes, fuels, atmospheric science, hydrocarbons and tests for ions.

Physics will cover, forces, motion, waves, the electromagnetic spectrum, radioactivity, energy, electricity, magnetism, motors and the particle model.

Students will gain essential practical skills with embedded core practicals. The core practicals, as well as the theoretical content, are assessed within two exam papers for each of the science subjects.

## Assessment

- 100% examination
- 2 Papers per science
- 6 x 1 hour 15 minute exam papers

## Facilities and Equipment used

- You will have access to a range of science materials and experiments throughout the course. You will explore a range of techniques through experiments and activities, all linked to the specific science being taught.

## Outside Learning Opportunities

- Visits to science conferences
- Workshops with local universities

## Related Careers

Careers related to this course are medical careers, chemist, microbiologist, marine biologist, pharmacist, geologist, petrochemical analyst, nuclear physicist, electrical engineering, physiotherapist, psychology and many more.

## For further information contact

Mr D Fleetwood [DFleetwood@sdcc-smhc.net](mailto:DFleetwood@sdcc-smhc.net)