

Intention of Chemistry

The Chemistry curriculum is designed to provide students with the fundamental concepts of how atoms and molecules interact to enable them with the essential skills to be able to contribute to the economy and health of the planet. Chemists of the future may develop new cures for disease, synthesise new nanotechnology materials or even create an innovative solution for storage of carbon to reverse global warming. Chemistry lessons will not only cover the subject knowledge but also enthuse students to understand the boundless potential of the subject post KS5.

Successful Chemistry students will also have logical enquiring minds that can visualise abstract concepts which are vital skills much needed in the wider workplace. Practical work is a vital part of the course and a methodical stepwise approach is vital where students can not only produce accurate and precise results but also can explain the fundamental chemistry behind their observations and problem solve when issues arise. Experiments in chemistry are treated as opportunities for learning and a stimulating way of putting theory into practice.

It is the intent of Chemistry to build and foster all these skills in a positive, supportive environment. All students are expected to have their resilience tested at some point, with what is a demanding subject. Guidance and support will always be given, irrelevant to level students are working at. Approachability and enthusiasm of teaching staff will enable students to feel more able to seek the guidance they need and deserve.

Opportunities for developing the cultural capital of students include how theories evolve over time, the impact of chemistry on the environment and how chemistry can lead to rewarding career in many areas.