

Bourne

Community College

Kindness Respect Determination



Welcome to Science



General Overview

All students study Science from Year 7 and throughout each academic year will develop their understanding in Biology, Chemistry and Physics. During KS4 all students study Science and work towards 3 GCSE's for the Triple award or 2 GCSE's in the Double award. The Science GCSE will prepare students to be scientifically literate and develop skills such as problem solving.

Science vision

To empower all students with the skills and scientific knowledge to achieve their best outcome in a supportive and inspiring setting.

Science INTENT Statement

Science at Bourne Community College provides a broad curriculum which challenges students to develop their curiosity, enquiry skills, knowledge and understanding of Science in everyday life. Students are encouraged to articulate scientific concepts clearly and precisely.

Our curriculum delivers an accessible pathway for more advanced Science-based study, providing a gateway into a wide range of career opportunities.

Our Curriculum

Years 7 & 8

Our adapted Activate course is designed to match the KS3 National curriculum and help prepare students for success in their GCSE's. It has a flexible route of study with an engaging and contemporary approach to Science. Pupils will be actively involved in lessons incorporating practicals, Maths and Literacy along with fun facts, quizzes and questions to engage students.

Years 9, 10 & 11

All students study Science at GCSE through 2 possible routes. The triple award, leading to 3 GCSEs in each of the separate Sciences or the Combined Science (double award), 2 GCSEs covering a combination of the 3 separate disciplines.

GCSE

Separate Sciences - AQA Triple Science:

Studying the separate Sciences means students will achieve 3 Science GCSE's. GCSE Biology, Chemistry and Physics makes the transition from GCSE to post-16 science subjects easier.

Combined Science - AQA Trilogy:

The double award is equivalent to 2 GCSE's covering the 3 disciplines in the traditional fashion. Trilogy takes a logical and coherent journey through familiar and new content.

Engaging Practicals:

Practicals are essential for student's understanding of scientific theory. There are 28 required practicals that students must study for the Triple award and 16 required practicals for Trilogy in preparation for their exams.

Exams:

Each of the GCSE Science subjects will have the following:

Two papers: Each paper will assess different topics.

Duration: Both papers are 1 hour 45 minutes for Triple Science and 1 hour 15 minutes for Trilogy.

Tiers: Foundation and Higher.

Weighting: The papers are equally weighted. Each is worth 50% of the grade and has 100 marks available.

Question types: Multiple choice, structured, closed short answer and open response.

Homework

Homework in Science varies across all Year groups. It will either be set on our online learning tool – Seneca or Google classroom, comprehension based questions, research tasks, practical activities or exam style questions. The homework task will depend on the Science topic being covered at the time in class.

STEM

We actively promote STEM through cross curricular projects across the school and our local Primary schools, supporting habits of mind and the thinking school strategy.

Staff

Joanne Church -	Curriculum Leader
Nathan Griggs -	Assistant Director of Learning/ PGCE mentor
Anthony Clarke -	Teacher of Science
Claire Gamble -	Teacher of Science
Tim Ratcliffe -	Teacher of Science
Julie Van Walt -	Teacher of Science
Ian Salisbury -	Teacher of Science
Dan Turner -	Teacher of Science
Maz Perry -	Teacher of Science/ STEM co-ordinator

Technicians and support

Hayley Rodgers -	Senior Science Technician
Dan Brook -	Assistant laboratory Technician