Subject key:

- Assessment
- Required practical
- British science week

Science - Biology
Curriculum Road Map

GCSE exams

- A levels
- T levels
- Apprenticeships
- Traineeships
- Technical and vocational qualifications

Personalised revision

Year 11

- Yr 11 Paper 2 mock exams
- B17 Organising an ecosystem Distribution and abundance practical
- B16 Adaptations, interdependence and competition
- Yr 11 Paper 1 mock exams
- B14 Variation and evolution
- B13 Reproduction
- B12 Homeostasis in action
- B18 Biodiversity
- B15 Genetics and evolution

Year 10

- B7 Non communicable disease
- B8 Photosynthesis Rate of photosynthesis practical
- B9 Respiration
- B10 Triple content -The brain, the eye and common problems with the eye.
- B11 Hormonal coordination
- B6 Preventing and treating disease
- B6 Triple content - Monoclonal antibodies
- B5 Triple content - Culturing bacteria, preventing bacterial growth plant diseases and plant defence responses.
- B10 Human nervous system Function of nervous system
- Yr 10 Mock exams
- B11 Triple content - Plant hormones and responses, using plant hormones Required practical - Tropisms practical
- B4 Organising animal and plants
- B2 Cell Division

Year 9

- B5 communicable disease
- B3 Organisation and the digestive system. Food tests, the effect of pH on the rate of reaction of amylase
- Science week
- Science week
- Genes (Evolution and Inheritance)
- Engineering challenges - Bridge building, solar ovens, tallest tower.
- Science fair and celebration with parents
- Organisms (breathing and digestion)
- Ecosystems (Respiration and photosynthesis)
- B1 Cell structure and transport Microscopy required practical. Osmosis required practical

Year 8

- Enquiry processes
- Ecosystems (interdependence and plant reproduction)
- Genes (variation and reproduction)
- Science week
- Enquiry processes
- Lab safety Forces (speed and gravity)
- Trip opportunity
- Organisms (movement and cells)

Year 7

- Yr 5 taster day - flame tests
- Yr 6 taster day – What makes the best bubble?

Literacy · Numeracy · Enrichment Cultural Capital · Enrichment Catholic Ethos · Learning Sequenced · Learning Stand Alone

Curriculum intent:

Science continues to change our lives and is vital to the world's future prosperity. We are surrounded by technology and the products of science every day. Public policy decisions that affect every aspect of our lives are based in scientific evidence. As children grow up in an increasingly technologically and scientifically advanced world, they need to be scientifically literate to succeed.

At St Benedict's Catholic College students follow a five-Yr curriculum that focuses on the big ideas in Science over three disciplines: Biology, Chemistry and Physics. We follow the National curriculum for science, which builds on the knowledge and skills that students developed at key stage two, fully prepares them for GCSE examinations and supports them in transitioning to the next phase in their lives.

In science lessons at St Benedict's students have the opportunity to explore the world around them and learn how to use problem-solving and critical thinking to create solutions and make decisions.

By the end of their time at St Benedict's students will have developed a sense of excitement and curiosity about natural phenomena. They will have developed lifelong skills that allow them to generate ideas, weigh decisions intelligently and understand evidence. They will have the skills and knowledge they need to succeed in school and beyond.