

Subject Area: Science – KS4

‘The science curriculum at Bideford College is designed to ensure that pupils develop a life-long interest in science to enable them to gain an ever-deepening understanding of the world around them’

Curriculum Overviews	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Biology – Respiration and photosynthesis Chemistry – Rates of reaction, equilibrium and chemical changes Physics – Energy, energy transfer and matter	Physics – Energy, energy transfer and matter Biology – Respiration and photosynthesis Chemistry – Rates of reaction, equilibrium and chemical changes	Biology – Communicable and non-communicable diseases, the human nervous system and hormonal control Chemistry – Structure, bonding, chemical calculations and electrolysis Physics – Radioactive decay, electric circuits and nuclear decay	Physics – Radioactive decay, electric circuits and nuclear decay Biology – Communicable and non-communicable diseases, the human nervous system and hormonal control Chemistry – Structure, bonding, chemical calculations and electrolysis	Chemistry – Structure, bonding, chemical calculations and electrolysis Physics – Radioactive decay, electric circuits and nuclear decay Biology – Communicable and non-communicable diseases, the human nervous system and hormonal control	Biology – Communicable and non-communicable diseases, the human nervous system and hormonal control Chemistry – Structure, bonding, chemical calculations and electrolysis Physics – Radioactive decay, electric circuits and nuclear decay
Year 11	Biology – Biodiversity & reproduction Chemistry – Chemical calculations and reactions Physics – Forces, balance and explaining motion	Biology – Variation, evolution, genetics and ecosystems Chemistry – Energy changes, fuels and chemical analysis Physics – Forces, balance and explaining motion	Physics – Explaining motion and electromagnetism Biology – Variation, evolution, genetics and ecosystems Chemistry – Energy changes, fuels and chemical analysis	Biology – Revision Chemistry – Revision Physics – Revision	Biology – Revision Chemistry – Revision Physics – Revision	Biology – Revision Chemistry – Revision Physics – Revision

Texts, Exam Boards and Useful Websites:**Key Stage 4 (Year 10 - 11)**

Combined science (trilogy) - Exam Board – AQA

<https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

GCSE Biology - Exam Board – AQA

<https://www.aqa.org.uk/subjects/science/gcse/biology-8461>

GCSE Chemistry - Exam Board – AQA

<https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462>

GCSE Physics - Exam Board – AQA

<https://www.aqa.org.uk/subjects/science/gcse/physics-8463/assessment-resources>

Focus e-learning practical simulations. A resource to revise all the practical investigations in science.

Complete all the AQA required practical's for biology, chemistry and physics. Login info is:

username: student@bideford30939

password: 0xmz8yyup

<https://www.focuselearning.co.uk/>

Educake. Students have individual logins (ask your teacher for your username)

<https://www.educake.co.uk/>

Padlet- Use checklists and resources on padlet for all of physics. Password is 'bideford'

<https://padlet.com/spyle/P1>

*Change the P1 to P2 etc. to find different topics, up to 16.