Subject: Science

Kay Stage 4 Curriculum Plan

Year: 11

Department Information:

8 Science lessons per fortnight (covering all Biology, Chemistry and Physics content).
Home learning set weekly alternating with Seneca online learnng and activities set by the class teacher.
Teachers: Andrew Colville Associate Senior Leader for Science. Samuel Thompson - Head of KS4 Science. Veronica Coshall - KS4 - Raising Standards Leader, Samantha Steele Head of KS3 Science, Yolande Cheeseman, Ryan Hogan, Morgan Rost, Grace Lamond - Teachers of Science.

Curriculum aims and intent:

Covering a range of biology, chemistry and physics paper 2 content in preparation for final GCSE examinations and Easter mock exams.

AQA Combined Science specification - https://www.aqa.org.uk/subjects/science/gcse/science-8464/specification

National curriculum - https://www.gov.uk/government/publications/national-curriculum-in-england-science-programmes-of-study/national-curriculum-in-england-science-programmes-of-study#key-stage-4

Cross curricular links between Maths and Science, including algebraic equations, graphical calculations, trigonometric skills

Resources used to support learning:

Seneca learning - https://senecalearning.com/en-GB/

AQA exam resources - https://www.aqa.org.uk/subjects/science/gcse/science-8464/assessment-resources

Cognito - https://cognitoedu.org/home

Home Learning:

Weekly home learning set by class teacher using a range of activities:
- Exam questions
- Seneca learning
- Pre-learning
- Skills practice (Maths, Graphs, investigation skills)

Assessment:

Christmas mock exams
- Combined Science biology paper 1 (H/F) - 70 marks
- Combined Science chemistry paper 1 (H/F) - 70 marks
- Combined Science physics paper 1 (H/F) - 70 Marks

Easter mock exams
- Combined Science biology paper 2 (H/F) - 70 marks
- Combined Science chemistry paper 2 (H/F) - 70 marks
- Combined Science physics paper 2 (H/F) - 70 marks

How parents can help their child:

Making sure home learning is completed on time

Supporting your child by ensuring they bring the correct equipment to every lesson - Pen, Pencil, Ruler, Calculator

Term	Summary of work being covered	Knowledge, Understanding and skills assessed	How the work is assessed	Career Links
1	Electromagnetic waves Rate and extent of chemical change Reproduction Forces and their interactions Organic chemistry	Exam technique Drawing and interpreting graphs Recall and application of equations	In class assessments	Industrial chemistry
2	Variation and Evolution Forces and Motion	Exam technique Investigative skills Drawing and interpreting graphs Recall and application of equations	Christmas mock exams	Ecologist
3	Forces and Motion Chemical analysis The development and understanding of genetics and evolution Magnetism and electromagnetism	Exam technique Method writing	In class assessments	Molecular cloning
4	Revision	Exam technique Investigative skills Drawing and interpreting graphs Recall and application of equations	Easter mock exams	Higher education
5	Study leave	All prior content and skills taught between Year 9 and Year 11	GCSE examinations	Higher education
6	Study leave	All prior content and skills taught between Year 9 and Year 11	GCSE examinations	Higher education