Subject: Chemistry

Kay Stage 5 Curriculum Plan

Year: 12

Department Information:

8 Science lessons per fortnight. 2 additional period 5 lessons.

Home learning set weekly by the class teacher.

Curriculum aims and intent:

Covering the following modules:
Module 2 - Foundations in Chemistry
Module 3 - Periodic table and energy
Module 4 - Core organic Chemistry

Assessed practical work (PAG)

OCR A-Level Chemistry A Specification - https://www.ocr.org.uk/images/171720-specification-accredited-a-level-gce-chemistry-a-h432.pdf

Resources used to support learning:

OCR past exam papers - https://www.ocr.org.uk/qualifications/as-and-a-level/chemistry-a-h032-h432-from-2015/assessment/

Physics and maths tutor - https://www.physicsandmathstutor.com/chemistry-revision/a-level-ocr-a/

Kerboodle - https://www.kerboodle.com/users/login?user_return_to=%

Home Learning:

Set weekly by class teachers. A range of activities:
- Exam questions
- Flipped learning
- Practical analysis
- Research

Assessment:

Winter mock exams
- Breadth in Chemistry style mock exam - 45 marks
- Depth in Chemistry style mock exam - 45 marks

Summer mock exams
- Breadth in Chemistry 70 marks
- Depth in Chemistry - 70 marks

How parents can help their child:

Supporting with additional resources:

Textbook - https://www.ocr.org.uk/qualifications/as-and-a-level/chemistry-a-h032-h432-from-2015/textbooks/

Completing study period work set on MS Teams and going over lessons which are also uploaded.

Term	Summary of work being covered	Knowledge, Understanding and skills assessed	How the work is assessed	Career Links
1	C2 - Atoms, ions and compounds C3 - Amount of substance C5 - Electrons and bonding C6 - VSEPR and Intermolecular forces	Exam technique Practical assessment skills Extended responses Recall and application of equations	C3 End of topic test	Chemical engineering
2	C4 - Acids and redox C7 - Periodicity C11 - Basic concepts of organic chemistry C12 - Alkanes	Exam technique Practical assessment skills Recall and application of equations	C5 + C6 + C11 End of topic test C4 End of topic test Winter mock exams	Drug development
3	C8 - Reactivity trends C9 - Enthalpy C13 - Alkenes C14 - Alcohols	Exam technique Practical assessment skills Extended responses Recall and application of equations	C7 + C8 End of topic test C12 + C15 End of topic test C9 End of topic test	Analytical Chemist
4	C10 - Reaction rates and equilibrium C16 - Organic synthesis C17 - Spectroscopy	Exam technique Practical assessment skills Analysis of infrared and MS spectrum's Recall and application of equations	C10 End of topic test C13 + C14 end of topic test	Analytical Chemist
5	Revision Mock exams	All AS Chemistry content and skills	C15 + C16 End of topic test Summer mock exams	Higher education
6	C18 - Rates of reaction C25 - Aromatic chemistry C26 - Carbonyls and Carboxylic acids	Exam technique Evaluating numerical data Graphical analysis Practical assessment skills	C18 End of topic test C25 End of topic test	Chemical manufacturing