



Year 13



May/June:
Unit 7 Exam
& Unit 1/5 retakes

June:
Assignment 14D:
Investigate organic chemistry reactions in order to gain skills in preparative organic chemistry.

June: Assignment 21C: Understand health and safety, associated risks, side effects and limitations of ionising and non-ionising instrumentation techniques in medical applications

May
Assignment 11B: Explore how the process of cell division in eukaryotic cells contributes to genetic variation

May
Assignment 2A & 2D: A: Undertake titration and colorimetry to determine the concentration of solutions; D: Review personal development of scientific skills for laboratory work.

June
Assignment 11C & 11D: C: Explore the principles of inheritance and their application in predicting genetic traits; D: Explore basic DNA techniques and the use of genetic engineering technologies.

April
Assignment 2B: Undertake calorimetry to study cooling curves.

April
Assignment 14C: Understand types, structures, reactions, uses and properties of isomers.

February
Assignment 14B:
Understand the reactions and properties of aromatic compounds.

March
Unit 7 PPE

March
Assignment 2C: Undertake chromatographic techniques to identify components in mixtures.

April
Assignment 11A: Understand the structure and function of nucleic acids in order to describe gene expression and the process of protein synthesis

January:
Unit 1 and 5 Exams
Start coursework units: 2 and 11

December
Unit 1 and 5 PPEs

Regular formative/
summative assessments:
Unit 7

December:
Assignment 21AB: A: Explore the principles, production, uses and benefits of non-ionising instrumentation techniques in medical applications; B: Explore the principles, production, uses and benefits of ionising instrumentation techniques in medical applications

Formative assessments:
Unit 1 and 5

November
Assignment 14A: Understand the structures, reactions and properties of functional group compounds.

Week 5
Induction
Assessment

September
Start exam units 1, 5 and 7 (see page 2 for more information)
Coursework units: 2, 11 14 and 21

Year 12



Start exam Unit 1:

A Periodicity and properties of elements: A1 Structure and bonding in applications in science; A2 Production and uses of substances in relation to properties;

B Structure and functions of cells and tissues: B1 Cell structure and function; B2 Cell specialisation; B3 Tissue structure and function

C Waves in communication: C1 Working with waves; C2 Waves in communication; C3 Use of electromagnetic waves in communication

Start exam Unit 5:

A Properties and uses of substances: A1 Relating properties to uses and production of substances; A2 Structures, reactions and properties of commercially important organic compounds; A3 Energy changes in industry.

B Organs and systems: B1 The cardiovascular system; B2 Ventilation and gas exchange in the lungs; B3 Urinary system structure and function; B4 Cell transport mechanisms.

C Thermal physics, materials and fluids: C1 Thermal physics in domestic and industrial applications; C2 Materials in domestic and industrial applications; C3 Fluids in motion

Start exam Unit 7:

A Contemporary scientific issues: A1 Understand the scientific issues in terms of ethical/ social/ economic/ environmental impact; A2 Understand the influence of different organisations/individuals on scientific issues;

B Interpretation, analysis and evaluation of scientific information: B1 Interpretation and analysis of scientific information; B2 Evaluation of scientific information.

C Science reporting: C1 Know how science is reported in different media and for different audiences; C2 Understand the presentation of science reporting and its relationship with the reporting medium and target audience.