

University

Apprenticeships

Employment

Swanshurst School

BTEC Level 3 Applied Science Curriculum Road Map Year 13 Diploma (Double) 2023-2024



June
Retakes of exam units if required

May

Assignment 6C & D: C: Safely undertake the project, collecting, analysing and presenting the results
D: Review the investigative project using correct scientific principles

April

Assignment 8A: Understand the impact of disorders of the musculoskeletal system and their associated corrective treatments

April

Assignment 8B: Understand the impact of disorder on the physiology of the lymphatic system and the associated corrective treatment.

April

Assignment 8C: Explore the physiology of the digestive system and the use of corrective treatments for dietary related diseases.

March/April

Assignment 4C & 4D: C: Explore manufacturing techniques and testing methods for an organic solid;
D: Understand how scientific information may be stored and communicated in a workplace laboratory

January

Assignment 4A: Understand the importance of health and safety in scientific organisations;

January
Unit 3 Exam

January

Assignment 6B: Produce a plan for an investigative project based on the proposal

November

Assignment 6A: Undertake a literature search and review to produce an investigative project proposal

December

Assignment 4B: Explore the manufacturing techniques and testing methods for an organic liquid

September: Start exam Unit 3:

A Planning a scientific investigation: A1 Developing a hypothesis for an investigation; A2 Selection of appropriate equipment, techniques and standard procedures; A3 Health and safety associated with the investigation; A4 Variables in the investigation; A5 Method for data collection and analysis.

B Data collection, processing and analysis/interpretation: B1 Collection of quantitative/qualitative data; B2 Processing data.

C Drawing conclusions and evaluation: C1 Interpretation/analysis of data; C2 Evaluation.

D Enzymes in action: D1 Protein structure; D2 Enzymes as biological catalysts in chemical reactions; D3 Factors that can affect enzyme activity.

E Diffusion of molecules: E1 Factors affecting the rate of diffusion; E2 Arrangement and movement of molecules.

F Plants and their environment: F1 Factors that can affect plant growth and/or distribution; F2 Sampling techniques; F3 Sampling sizes

G Energy content of fuels: G1 Fuels; G2 Hazards associated with fuels; G3 Units of energy

H Electrical circuits: H1 Use of electrical symbols to design circuits; H2 Equations; H3 Energy usage

December: Unit 3 PPEs

September

Start exam unit 3
Coursework units 4, 6
and 8

Year
13

