BTEC Applied Science KS5: Year 12



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 associated with the investigation A5 Method for data collection and analysis

Unit 3 B Data Collection, processing and analysis

B1 Collection of quantitative / qualitative data B2 Processing data

Unit 3 D-H Practical scenarios to use to develop the skills in A-C

SUMMER

3:2

Revision & Review for Unit 1 exams in May

SUMMER 3:1

SPRING 2:2

Revision & Review for Unit 1 Exams in May

with waves
Use of fibre optics

Unit 1 C3 Electromagnetic waves in communication

Uses and applications of electromagnetic waves

Unit 1 B3 Tissue structure and function

Epithelial tissue Muscular tissue Nervous tissue

Unit 1 A2 Structure and bonding in Science

Periodic table
Physical properties of
elements
Chemical properties of
elements

SPRING 2:1

Unit 1 A1 Structure and bonding in Science Quantitative chemistry

specialisation Structure and function of specialised cells

Unit 1 B2 Cell

Unit 1 C2 Communicating with

AUTUMN

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Unit 1 A1 Structure and bonding in Science

Electronic structure
Ionic bonding
Covalent boding
Metallic bonding
Intermolecular forces

Unit 1 B1 Cell structure and function

Prokaryotes Eukaryotes Microscopy

Unit 1 C1 Working with waves

Features of waves Types of waves Wave equations

AUTUMN 1:1

GCSE Combined Science

Completion of the summer transition

OUR LEARNING JOURNEY

BTEC Applied Science KS5: Year 13



Unit 8 C The digestive system

A1 Structure of the digestive system A2 Function of the digestive system A3 Health matters and treatments related to the digestive system

Unit 8 B The lymphatic system

A1 Structure of the lymphatic system A2 Function of the musculoskeletal system A3 Health matters and treatments related to the lymphatic system

Unit 8 A The musculoskeletal system

A1 Structure of the musculoskeletal system A2 Function of the musculoskeletal system A3 Health matters and treatments related to the musculoskeletal system

SUMMER

3:2

SUMMER

3:1

Unit 2 D Review of personal development

D1 Personal responsibility D2 Interpersonal skills D3 Professional practice

- C1 Chromatographic techniques
- C2 Applications of Chromatography
- C3 Interpretation of a chromatogram

SPRING 2:2

Unit 2 B Cooling Curves

B1 Thermometers **B2** Cooling curves

Unit 2 A Titrations and colorimetry

Unit 2 C Chromatography

A1 Laboratory equipment and its calibration A2 Preparation and standardisation of solutions using titration A3 Colorimetry

SPRING

2:1

Unit 3 C Drawing conclusions and evaluating evidence

C1 Interpretation and analysis of data C2 Evaluations

Unit 3 D-H Practical scenarios to use to develop the skills in A-C

AUTUMN 1:2

Revision & Review for Unit 3 exams in Jan and any resits of Unit 1 exams

AUTUMN 1:1

OUR LEARNING JOURNEY