

# 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

**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

**Unit 1 C2 Communicating with waves**  
Use of fibre optics

**Unit 1 B2 Cell specialisation**  
Structure and function of specialised cells

**AUTUMN 1:2**

**Unit 1 A1 Structure and bonding in Science**  
Electronic structure  
Ionic bonding  
Covalent bonding  
Metallic bonding  
Intermolecular forces

**Unit 1 B1 Cell structure and function**  
Prokaryotes  
Eukaryotes  
Microscopy

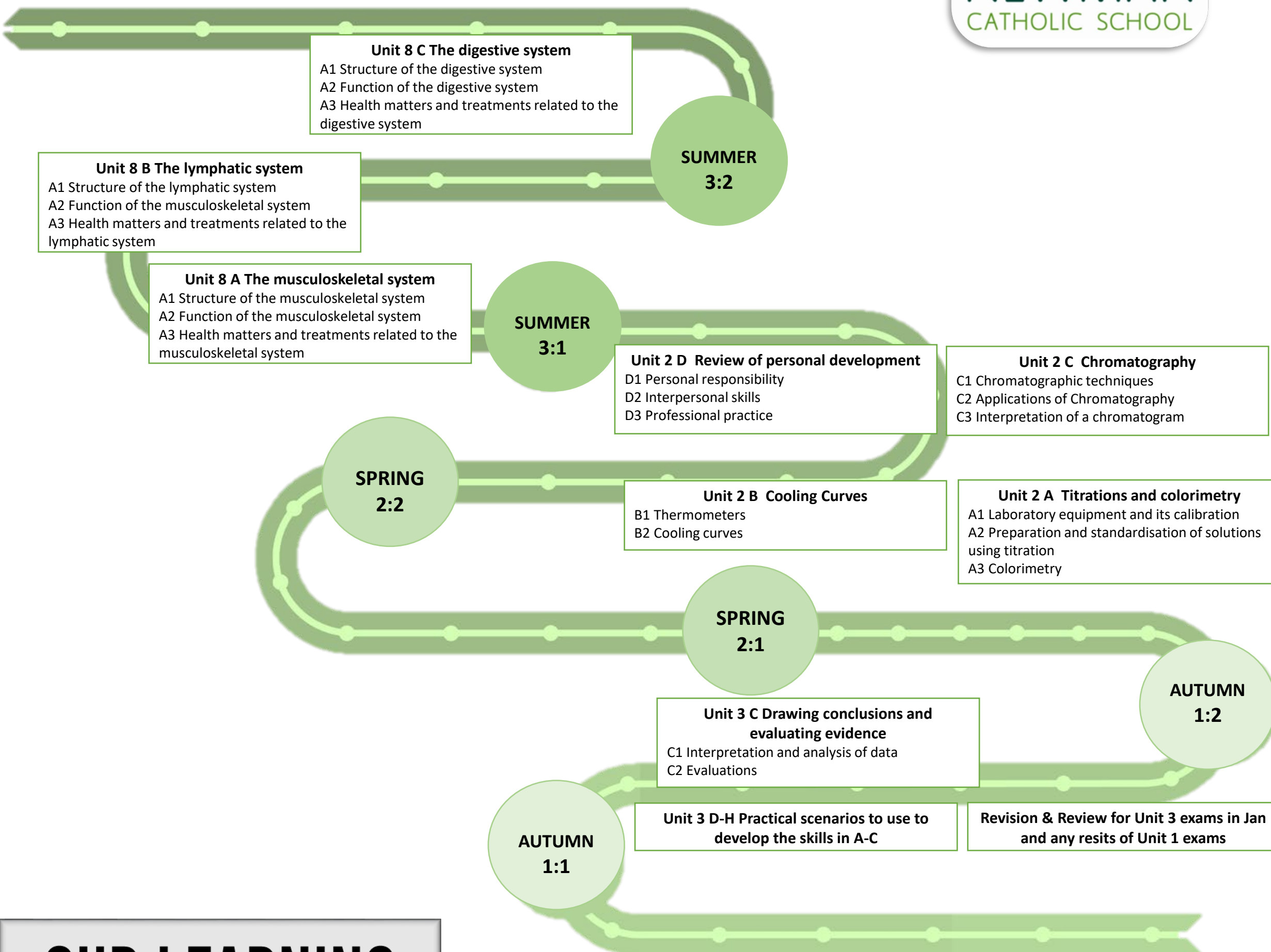
**Unit 1 C1 Working with waves**  
Features of waves  
Types of waves  
Wave equations

**AUTUMN 1:1**

GCSE Combined Science  
+  
Completion of the summer transition tasks

**OUR LEARNING JOURNEY**

# BTEC Applied Science KS5: Year 13



## OUR LEARNING JOURNEY