

## AUTUMN 1

## AUTUMN 2

## SPRING 1

## SPRING 2

## SUMMER 1

## SUMMER 2

### YEAR 12

#### Unit 1 - Principles and Applications of Science I

- LA A-Periodicity and properties of elements
- Structure and bonding in applications in science
- Production and uses of substances in relation to properties

#### Unit 1 - Principles and Applications of Science I

- LA B-Structure and functions of cells and tissues
- Cell structure and function
- Cell Specialism
- Tissue structure and function

#### Unit 1 - Principles and Applications of Science I

- LA C-Waves in communication
- Working with waves
- Waves in communication
- Use of electromagnetic waves in communication

#### Unit 2 - Practical Scientific Procedures and Techniques - Concentrate on keeping up your standards

- LA A - Undertake titration and colorimetry to determine concentration of solutions
- Calibration of laboratory equipment to be used throughout the assignment
- Preparation and standardisation of solutions using titration
- Using colorimetry to determine an unknown concentration

#### Unit 2 - Practical Scientific Procedures and Techniques - Keeping up the standards

- LA B - Undertake calorimetry to study cooling curves
- Calibration of thermometers and compare different examples to help choose appropriate equipment
- Collect data to create a cooling curve

#### Unit 2 - Practical Scientific Procedures and Techniques - Separate to identify

- LA C - Undertake chromatographic techniques to identify components in mixtures
- Chromatographic techniques
- Application of chromatography
- Interpretation of a chromatogram

#### Unit 2 - Practical Scientific Procedures and Techniques - How am I doing?

- LA D - Review personal development of scientific skills for laboratory work
- Reflection on personal responsibility
- Evaluating your interpersonal skills
- Understanding professional practice

### YEAR 13

#### Unit 3- Science investigation skills

- LA A - Planning a scientific investigation
- LA B - Data collection, processing and analysis/interpretation
- LAC - Drawing conclusions and evaluation
- LA D - Enzymes in action
- LA F - Plants and their environment

#### Unit 3- Science Investigation skills

- LA A - Planning a scientific investigation
- LA B - Data collection, processing and analysis/interpretation
- LAC - Drawing conclusions and evaluation
- LA E - Diffusion of molecules
- LA G - Energy content of fuels

#### Unit 3- Science investigation skills

- LA A - Planning a scientific investigation
- LA B - Data collection, processing and analysis/interpretation
- LAC - Drawing conclusions and evaluation
- LA H - Electrical Circuits

#### Unit 8 - Physiology of Human Body System - Musculoskeletal disorders

- LA A - Understand the impact of disorders of the musculoskeletal system and their associated corrective treatments
- Structure of the musculoskeletal systems
- Function of the musculoskeletal system
- Health matters and treatments related to the musculoskeletal system

#### Unit 8 - Physiology of Human Body System - Impact of lymphatic disorder and associated treatments.

- LA B - Understand the impact of disorders on the physiology of the lymphatic system and the associated corrective treatments
- Structure of the lymphatic system
- Function of the lymphatic system
- Health matters and treatments related to the lymphatic system

#### Unit 8 - Physiology of Human Body System - Nutrition and health

- LA C - Explore the physiology of the digestive system and the use of corrective treatments for dietary-related disease
- Structure of the digestive system
- Function of the digestive system
- Health matters and treatments related to the digestive system