

BTEC Level 3 Applied Science – Teaching schedule

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	<p>Unit 1: Examination Principles and Applications of Science I</p> <ul style="list-style-type: none"> • Periodicity and properties of elements • Structure and functions of cells and tissues 	<p>Unit 1: Examination Principles and Applications of Science I</p> <ul style="list-style-type: none"> • Waves in communication <p>Unit 2: Coursework Practical Scientific Procedures and Techniques</p> <ul style="list-style-type: none"> • Undertake calorimetry to study colling curves • Thermometers • Cooling curves 	<p>Unit 2: Coursework Practical Scientific Procedures and Techniques</p> <ul style="list-style-type: none"> • Undertake titration and colorimetry to determine the concentration of solutions • Laboratory equipment and its calibration • Preparation and standardisation of solutions using titration • Colorimetry <p>Unit 2: Coursework Practical Scientific Procedures and Techniques</p> <ul style="list-style-type: none"> • Undertake chromatographic techniques to identify components in mixtures. • Chromatographic techniques • Application of chromatography 	<p>Unit 2: Coursework Practical Scientific Procedures and Techniques continued:</p> <ul style="list-style-type: none"> • Undertake chromatographic techniques to identify components in mixtures. • Review personal development of scientific skills for laboratory work • Personal responsibility • Interpersonal skills • Professional practice 	<p>Unit 2: Practical Scientific Procedures and Techniques</p> <ul style="list-style-type: none"> • Review personal development of scientific skills for laboratory work • Personal responsibility • Interpersonal skills • Professional practice 	<p>Unit 3: Science Investigation Skills</p> <ul style="list-style-type: none"> • Planning a scientific investigation • Data collection, processing and analysis/interpretation • Drawing conclusions and evaluation • Arrangement and movement of molecules • Plants and their environment • Energy content of fuels

- Interpretation of a chromatogram

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Year 13	Unit 3: Science Investigation Skills <ul style="list-style-type: none"> • Enzymes in action • Diffusion of molecules • Electrical circuits 	Unit 3: Science Investigation Skills Revision Unit 8: Physiology of Human Body Systems <ul style="list-style-type: none"> • Understand the impact of disorders of the musculoskeletal system and their associated corrective treatments. • Structure of the musculoskeletal system • Function of the musculoskeletal system. • Health matters and treatments related to the musculoskeletal system. 	Unit 8: Physiology of Human Body Systems (continued): <ul style="list-style-type: none"> • Understand the impact of disorders of the musculoskeletal system and their associated corrective treatments. • 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 lymphatic system. 	Unit 8: Physiology of Human Body Systems (continued): <ul style="list-style-type: none"> • Understand the impact of disorders on the physiology of the lymphatic system and the associated corrective treatments • Explore the physiology of the digestive system and the use of corrective treatments for dietary-related diseases. • Structure of the digestive system • Function of the digestive system • Health matters and treatments related to the digestive system 	Unit 8: Physiology of Human Body Systems Unit 1/Unit 3 revision	