



Year 13 BTEC Science

Subject and Year Group	Autumn 1 Year 13	Autumn 2 Year 13	Spring 1 Year 13	Spring 2 Year 13	Summer 1 Year 13	Summer 2 Year 13
Topic/Unit to be studied	Unit 8: Physiology of Human Body Systems Learning Aim A: Musculoskeletal System Learning Aim B: Lymphatic System Learning Aim C: Digestive System Unit 3: Science Investigation Skills Part D: Enzymes Part E: Diffusion		Unit 3: Science Investigation Skills Part F: Plants Part G: Energy in Fuels Part H: Electricity		Preparation for Unit 3 exam	Study leave
Core Knowledge and skills	Structure & Function Bone Types & Composition Joints Muscle Structure Disorders Structure & Function Lymph Nodes Lymph Formation Circulation Immunity Digestion Disorders Structure & Function Nutrient Absorption Food Tests; Reducing Sugars Non-Reducing Sugars Protein		Factors Affecting Plant Growth and Distribution; <ul style="list-style-type: none"> Trampling pH and Aeration Light Intensity Temperature Water Mineral Ions Sampling Techniques Types of Fuels Fuel Hazards; <ul style="list-style-type: none"> Flammability Toxicity Explosion Risk Incomplete Combustion Sulphur Impurities Units of Energy			

Resilience

Responsibility

Reflectiveness



	<p>Lipid Vitamin C Balanced Diet Digestive Disorders</p> <p>Protein Structure Catalysts Factors Affecting Enzymes; <ul style="list-style-type: none"> • Temperature • pH Concentration</p> <p>Factors Affecting Diffusion Rate; <ul style="list-style-type: none"> • Concentration • Molecular Shape & Size • Temperature • Distance • Surface Area Arrangement & Movement of Molecules</p>	<p>Specific Heat Capacity</p> <p>Circuit Symbols Power Equations Energy Usage</p>		
Assessment	<p><u>Unit 8 Coursework (16.6%)</u> Written report to explore and understand the impact of disorders on the physiology of human body systems and their associated corrective treatments. Internally Assessed Externally Moderated</p> <p><u>Unit 3 Exam (33%)</u> Practical assessment externally set and marked to assess a learners' ability to plan, record, process, analyse and evaluate scientific findings using primary and secondary information / data.</p> <p>Regular low stakes testing Part A-C End of Topic Assessment (MCQ/short answer/long answer) Past Paper practice</p>			