



The Brades Lodge

Long Term Planning for: Science

Year 10 Lower Pathway: OCR Entry Level

AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1 and 2	SUMMER TERM 1 and 2
Biology	Chemistry	Physics	Can do tasks
<p>Intent: The Human Body: Know that cells are the basic building blocks of all living organisms. Know the main components of cells</p> <p>Implementation: Create a presentation and deliver to the class. Encourage pupils to try questions above their P step. Paired work, group work Peer marking Independence Collecting resources, scientific equipment.</p> <p>Impact: Entry level certificate Describe how cells may be specialised to carry out a particular function. Identify the position of the major organs in the human body, eg brain, heart,</p>	<p>Intent: Elements, Mixtures and Compounds Know that all substances are made of atoms and that an atom is the smallest part of an element that can exist. Describe simply how elements are arranged on the periodic table</p> <p>Implementation: Create a presentation and deliver to the class. Encourage pupils to try questions above their P step. Paired work, group work Peer marking Independence Collecting resources, scientific equipment.</p> <p>Impact: Entry level certificate</p>	<p>Intent: Energy, Forces, and the Structure of Matter. Know the changes involved in the way energy is stored when a system changes. Distinguish between energy resources that are renewable and energy resources that are non-renewable.</p> <p>Implementation: Create a presentation and deliver to the class. Encourage pupils to try questions above their P step. Paired work, group work Peer marking Independence Collecting resources, scientific equipment.</p> <p>Impact: Entry level certificate Use knowledge and research to make predictions. Use a variety of methods to display information. E.g. graphs, diagrams, charts. Draw appropriate results tables allowing for and experiment to be repeated</p>	<p>Intent: A practical hands-on approach of entry level science tasks.</p> <p>Implementation: Various tasks to improve scientific method; Creating hypothesis, Planning experiments, Apparatus, recording results and presenting data.</p> <p>Impact: Entry level certificate Successful completion of these simple can-do tasks is a positive experience for students, helping to build their confidence. Frequent opportunities will arise during the course for students to attempt the can- do tasks.</p>



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lungs, liver and reproductive organs			
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Year 10 Upper Pathway: BTEC Applied Science Level 1 / 2

AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
<p>Intent: Investigate factors that contribute to healthy living</p> <p>Implementation: A report with appropriate diagrams, tables and graphs.</p> <p>Impact: Unit 7 Health Applications of Life Science (30 credits) This unit is assessed by means of a written coursework consisting of the following assignments: Assignment 1 – A Healthy Lifestyle</p>	<p>Intent: Investigate and understand enthalpy changes associated with chemical reactions</p> <p>Implementation: A report with appropriate diagrams, tables and graphs.</p> <p>Impact: Unit 5 Applications of Chemical Substances (30 credits) Assignment 1 – Hot or Cold</p>	<p>Intent: Investigate electricity. Investigate forces</p> <p>Implementation: A report with appropriate diagrams, tables and graphs.</p> <p>Impact: Applications of Physical Science (30 credits) Assignment 3 Investigating Forces (P4, P5, P6, M3, M6, D4) Assignment 6 - Series and Parallel Circuits (P9, M7, D6)</p>	<p>Intent: Know how preventative measures can be used to support healthy living</p> <p>Implementation: A report with appropriate diagrams, tables and graphs.</p> <p>Impact: Health Applications of Life Science (30 credits) This unit is assessed by means of a written coursework consisting of the following assignments: Assignment 2 – Preventative Measures (P4, P5, P6, M3, M4, D4)</p>	<p>Intent: Investigate organic compounds used in society</p> <p>Implementation: A report with appropriate diagrams, tables and graphs.</p> <p>Impact: Unit 5 Applications of Chemical Substances (30 credits) Assignment 2 – The Importance of the Fractions of Crude Oil (P2, M2, D2) Assignment 3 – How Can We Identify Organic Chemicals? (P3, P4, M3, M4, D3)</p>	<p>Intent: Investigate motion</p> <p>Implementation: A report with appropriate diagrams, tables and graphs.</p> <p>Impact: Applications of Physical Science (30 credits) Assignment 1 How Speed Cameras Can Be Used to Improve Road Safety (P1, P2, M1, D1) Assignment 2 – Conservation of Energy (P3, M2, D2)</p>