

Science Y8



Michaelmas 1	<p>Plants: Identify and describe the anatomy of a plant Explain how a new plant forms. Describe reproduction in plants including fertilisation, types of pollination and types of dispersal.</p> <p>Photosynthesis: Identify the reactants and products for photosynthesis Recognise the word and symbol equations of photosynthesis Explain the uses for photosynthesis in a plant</p> <p>Separation Techniques: Explain and identify what a mixture is Describe different methods for separating mixtures</p>
Michaelmas 2	<p>Electricity: Identify and draw circuit symbols Describe the differences between series and parallel circuits Use formulas to calculate current, charge and voltage</p> <p>Respiration: Identify the reactants and products for the various types of respiration Recognise the word and symbol equations for each type of respiration Explain the importance of respiration</p> <p>Pressure, levers and moments: Describe what a lever is Explain what causes pressure to occur Calculate a moment using a given formula</p>
Lent 1	<p>Metals and non-metals: Identify metals and non-metals from the periodic table Describe properties of metals and non-metals Compare the uses of metals and non-metals based on their properties</p> <p>Health and disease: Define the term pathogen and give examples Identify which nutrients are necessary for a healthy diet Recognise substances that are harmful to the body and state the impact they can have</p>
Lent 2	<p>Magnetism: Identify magnetic materials Describe the differences between a permanent, induced and electromagnet Explain the uses of magnetism</p> <p>Inheritance: Describe how physical characteristics are inherited and genes are passed on Identify how inheritance is studied Explain what variation is and how it occurs</p>
Trinity 1	<p>Reactivity series: Describe reactions of metals with water, acid and oxygen Describe what a displacement reaction is Use the reactivity series to predict elements positions</p> <p>Enzymes: Review of the digestive system Explain what an enzyme is and its function Identify types of enzymes, their substrates, and their products</p>
Trinity 2	<p>Classification and evolution: Identify how organisms are classified according to the Linnean system State and give examples of what different organisms compete for Explain the process of evolution by natural selection</p> <p>Rock cycle:</p>

	<p>Identify and define the three types of rock: igneous, sedimentary, metamorphic</p> <p>Give examples of each type of rock</p> <p>Explain how each type of rock forms</p>
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