



You will learn about:

- The relationship between the circulatory and gas exchange systems.
- The heart, blood vessels and Coronary heart disease.
- Digestion and enzymes

You will be able to:

- Carry out a safe, controlled investigation to measure the rate of an enzyme under different conditions.

<p>Key learning points</p> <table border="1"> <tr><td>Organisational Hierarchy</td><td></td></tr> <tr><td>Digestive system</td><td></td></tr> <tr><td>Enzymes</td><td></td></tr> <tr><td>Effect of pH on enzymes Required Practical</td><td></td></tr> <tr><td>Human digestive enzymes</td><td></td></tr> <tr><td>Food tests Required practical</td><td></td></tr> <tr><td>Heart</td><td></td></tr> <tr><td>Blood vessel structure and function</td><td></td></tr> <tr><td>Coronary heart disease</td><td></td></tr> <tr><td>Blood</td><td></td></tr> <tr><td>Cancer</td><td></td></tr> <tr><td>Plant structure</td><td></td></tr> <tr><td>Plant transport systems</td><td></td></tr> </table>					Organisational Hierarchy		Digestive system		Enzymes		Effect of pH on enzymes Required Practical		Human digestive enzymes		Food tests Required practical		Heart		Blood vessel structure and function		Coronary heart disease		Blood		Cancer		Plant structure		Plant transport systems		<p>Key Words</p> <p>Cell, organ, tissues, system, enzyme, lock and key theory, active site, amylase, protease, lipase, denature, stomach, hydrochloric acid, bile, alkaline, aorta, pulmonary vein, pulmonary artery, vena cava, iodine, Benedict's, Biuret, plaque, stent, statin, white blood cell, plasma, platelets, red blood cell, xylem, phloem, diffusion, osmosis, active transport.</p>	
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<p>Links to other subjects:</p> <p>SMSC:</p> <ul style="list-style-type: none"> • Evaluate risks both in practical science and the wider social context, including perception of risk in relation to data and consequences. • Appreciate the power and limitations of science and consider any ethical issues which may arise. • Explain every day and technological applications of science. Evaluate and make decisions based on the evaluation of evidence and arguments. <p>Literacy:</p> <ul style="list-style-type: none"> • Communicating the scientific rationale for investigations, methods used, findings and reasoned conclusions through paper-based and electronic reports and presentations using verbal, diagrammatic, graphical, numerical and symbolic forms. • Use scientific vocabulary, terminology and definitions. <p>Numeracy</p> <ul style="list-style-type: none"> • Present and analyse the results: calculate rates of reaction using raw data and graphs. 																																
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection																										