

B4 Processes of Life - Revision Tickler

B4.1 How do chemical reactions take place in living things?	000
<p>b4.1.1. the basic processes of life carried out by all living things depend on chemical reactions in cells that require energy released by respiration.</p> <p>b4.1.2. photosynthesis in makes food molecules and energy available to living organisms through food chains.</p> <p>b4.1.3. describe photosynthesis as a series of chemical reactions that use energy from sunlight to build large food molecules in plant cells and some microorganisms (eg phytoplankton).</p> <p>b4.1.4. describe respiration as a series of chemical reactions that release energy by breaking down large food molecules in all living cells.</p>	
<p>b4.1.5. recall that enzymes are proteins that speed up chemical reactions.</p> <p>b4.1.6. recall that cells make enzymes according to the instructions carried in genes.</p> <p>b4.1.7. understand that molecules have to be the correct shape to fit into the active site of the enzyme (the lock and key model).</p>	
<p>b4.1.8. understand that enzymes need a specific constant temperature to work at their optimum, and that they permanently stop working (denature) if the temperature is too high.</p> <p>b4.1.9. explain that enzyme activity at different temperatures is a balance between:</p> <ul style="list-style-type: none"> increased rates of reaction as temperature increases changes to the active site at higher temperatures, including denaturing candidates are not expected to explain why rates of reaction increase with temperature. 	
<p>b4.1.10. recall that an enzyme works at its optimum at a specific pH</p>	
<p>b4.1.11. explain the effect of pH on enzyme activity in terms of changes to the shape of the active site.</p>	
B4.2 How do plants make food?	000
<p>b4.2.1. recall the names of the reactants and products of photosynthesis, and use the word equation:</p> <ul style="list-style-type: none"> light energy carbon dioxide + water → glucose + oxygen. 	
<p>b4.2.2. recall the formulae of the reactants and products of photosynthesis, and use the symbol equation:</p> <ul style="list-style-type: none"> light energy $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ 	
<p>b4.2.3. recall the main stages of photosynthesis:</p> <ul style="list-style-type: none"> light energy absorbed by the green chemical chlorophyll energy used to bring about the reaction between carbon dioxide and water to produce glucose (a sugar) oxygen produced as a waste product. 	
<p>b4.2.4. recall that glucose may be:</p> <ul style="list-style-type: none"> converted into chemicals needed for growth of plant cells, for example cellulose, protein and chlorophyll converted into starch for storage used in respiration to release energy. 	
<p>b4.2.14. understand that the rate of photosynthesis may be limited by:</p> <ul style="list-style-type: none"> temperature carbon dioxide light intensity. <p>b4.2.15. interpret data on factors limiting the rate of photosynthesis.</p>	
<p>b4.2.5. recall the structure of a typical plant cell, limited to chloroplasts, cell membrane, nucleus, cytoplasm, mitochondria, vacuole and cell wall.</p> <p>b4.2.6. understand the functions of the structures in a typical plant cell that have a role in photosynthesis, including:</p> <ul style="list-style-type: none"> chloroplasts contain chlorophyll and the enzymes for the reactions in photosynthesis cell membrane allows gases and water to pass in and out of the cell freely while presenting a barrier to other chemicals. nucleus contains dna which carries the genetic code for making enzymes and other proteins used in the chemical reactions of photosynthesis cytoplasm where the enzymes and other proteins are made. 	
<p>b4.2.8. understand that diffusion is the passive overall movement of molecules from a region of their higher concentration to a region of their lower concentration.</p> <p>b4.2.9. recall that the movement of oxygen and carbon dioxide in and out of leaves during photosynthesis occurs by diffusion.</p> <p>b4.2.12. understand that active transport is the overall movement of chemicals across a cell membrane requiring energy from respiration.</p> <p>b4.2.13. recall that active transport is used in the absorption of nitrates by plant roots.</p> <p>b4.2.7. recall that minerals taken up by plant roots are used to make some chemicals needed by cells, including nitrogen from nitrates to make proteins.</p>	

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Table of Contents Ocr 21st Century B4 Revision Guide

1. Understanding the eBook Ocr 21st Century B4 Revision Guide
 - The Rise of Digital Reading Ocr 21st Century B4 Revision Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr 21st Century B4 Revision Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr 21st Century B4 Revision Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr 21st Century B4 Revision Guide
 - Personalized Recommendations
 - Ocr 21st Century B4 Revision Guide User Reviews and Ratings

- Ocr 21st Century B4 Revision Guide and Bestseller Lists
- 5. Accessing Ocr 21st Century B4 Revision Guide Free and Paid eBooks
 - Ocr 21st Century B4 Revision Guide Public Domain eBooks
 - Ocr 21st Century B4 Revision Guide eBook Subscription Services
 - Ocr 21st Century B4 Revision Guide Budget-Friendly Options
- 6. Navigating Ocr 21st Century B4 Revision Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr 21st Century B4 Revision Guide Compatibility with Devices
 - Ocr 21st Century B4 Revision Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr 21st Century B4 Revision Guide
 - Highlighting and Note-Taking Ocr 21st Century B4 Revision Guide
 - Interactive Elements Ocr 21st Century B4 Revision Guide
- 8. Staying Engaged with Ocr 21st Century B4 Revision Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr 21st Century B4 Revision Guide
- 9. Balancing eBooks and Physical Books Ocr 21st Century B4 Revision Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr 21st Century B4 Revision Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr 21st Century B4 Revision Guide
 - Setting Reading Goals Ocr 21st Century B4 Revision Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr 21st Century B4 Revision Guide
 - Fact-Checking eBook Content of Ocr 21st Century B4 Revision Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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