

Adaptations of the digestive system

- Acid in the stomach giving a low pH for enzymes (stomach).
- Large surface area for absorption in the small intestine.
- Site to neutralise acid and create alkaline conditions for enzymes in the intestine.

Adaptations for exchange in the intestines (absorbing your food)

- Large surface area
- Short diffusion pathway (only one cell between blood and air in large)
- Cool blood supply (keeps dissolved products of digestion + using diffusion and active transport to get it from the intestine to the blood)

Specialised Cells

Remember cells are specialised for their job. Sperm cells have long tails and are good swimmers. They also have lots of mitochondria to provide the energy they need. Other examples include fat cells, nerve cells and root hair cells.

Stem Cells

Cells that can become anything - undifferentiated.

Embryonic stem cells can be made into any type of cell (being all sorts of different) but come from embryos. Embryonic cells can be a problem. We also don't know the long term effect of them yet.

Adult stem cells can also be used but can't be made into as many different things. But they can give permission to have them taken. Because the operation might be useful.



Body structure

A group of cells with similar function make up **TISSUE**. Tissues that all work together make up an **ORGAN**.

Organs together make up an **ORGAN SYSTEM** like the digestive system.

Many organs systems = An organism!

Diffusion is where dissolved substances move from a **high concentration** where there's lots of them to a **low concentration** where there's less. **Through a semi permeable membrane**.

Remember molecules move randomly between the sides + faster diffused!

Enzyme	Substrate	Product
Salivary amylase	Carbohydrates	Sugars
Pepsin	Protein	Amino acids
Lipase	Lipids (fat)	Fatty acids and Glycerol

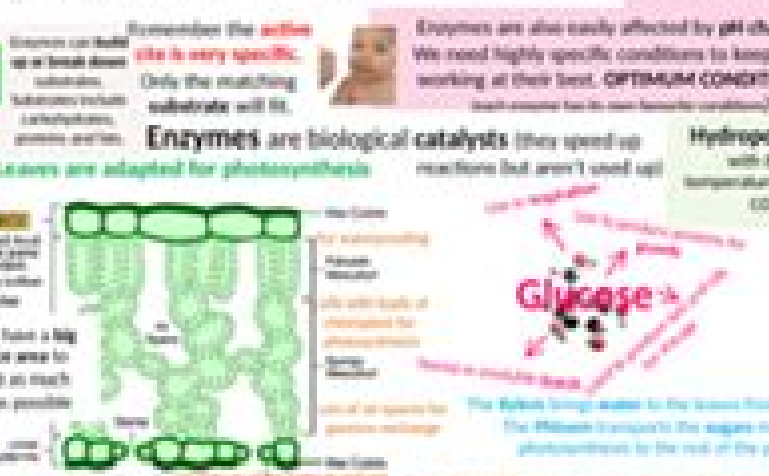
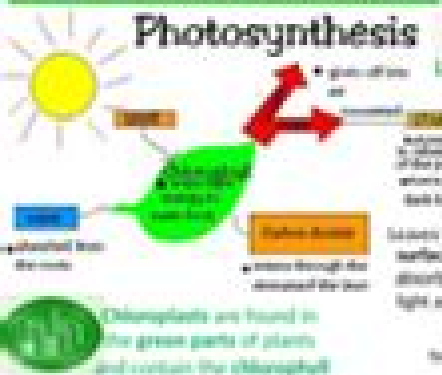
Enzymes can be used to treat and diagnose diseases.



Useful Enzymes: Proteases used in baby food. Biological washing powders contain enzymes to break down food stains.

Greenhouses can use our knowledge of limiting factors to maximise production, making plants grow faster.

The rate of photosynthesis may be slowed by a lack of light, CO₂, or if it's too cold. Temperature is a limiting factor as enzymes are affected.



Limiting Factors

Hydroponics is a way of growing plants in water with the perfect balance of nutrients. The temperature is also controlled, lights are kept on and CO₂ is pumped into the greenhouse.

To make profitable plants also need to absorb NITRATES from the soil to build protein with. The nitrate will feed to stored growth.

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1. Understanding the eBook May 20hl Bio Paper 1
 - The Rise of Digital Reading May 20hl Bio Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying May 20hl Bio Paper 1
 - 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 May 20hl Bio Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 20hl Bio Paper 1
 - Personalized Recommendations
 - May 20hl Bio Paper 1 User Reviews and Ratings

- May 20hl Bio Paper 1 and Bestseller Lists
- 5. Accessing May 20hl Bio Paper 1 Free and Paid eBooks
 - May 20hl Bio Paper 1 Public Domain eBooks
 - May 20hl Bio Paper 1 eBook Subscription Services
 - May 20hl Bio Paper 1 Budget-Friendly Options
- 6. Navigating May 20hl Bio Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - May 20hl Bio Paper 1 Compatibility with Devices
 - May 20hl Bio Paper 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 20hl Bio Paper 1
 - Highlighting and Note-Taking May 20hl Bio Paper 1
 - Interactive Elements May 20hl Bio Paper 1
- 8. Staying Engaged with May 20hl Bio Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 20hl Bio Paper 1
- 9. Balancing eBooks and Physical Books May 20hl Bio Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 20hl Bio Paper 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine May 20hl Bio Paper 1
 - Setting Reading Goals May 20hl Bio Paper 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May 20hl Bio Paper 1
 - Fact-Checking eBook Content of May 20hl Bio Paper 1
 - 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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