

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 (carries 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. Some cells have long cilia 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 painful.



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.

Normal cell division

Good for repair and growth. Or Asexual reproduction.

Two identical daughter cells are made from one parent cell. Each containing 23 complete pairs of chromosomes.

Cell division

Is there enough light? water? Is enough oxygen or CO₂? Don't forget enzymes are proteins made up of amino acids.

To begin with heat will help increase collisions between the enzymes and substrates BUT too hot and it will denature. (Remember denature = NOT do)

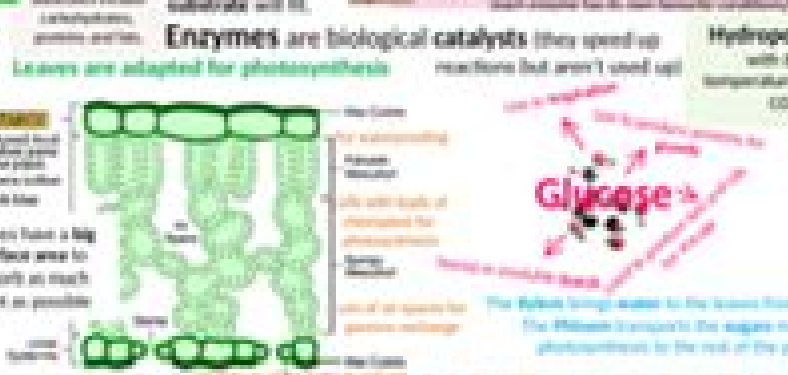
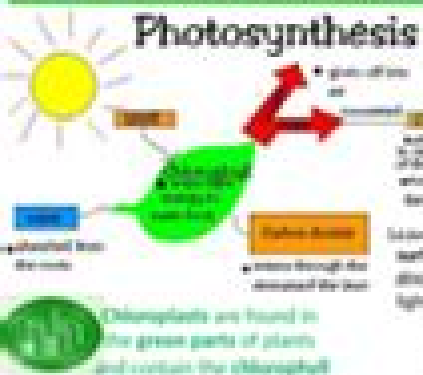
Denatured

Enzymes are also easily affected by pH changes. We need highly specific conditions to keep them working at their best. **OPTIMUM CONDITIONS!** (each enzyme has its own favorite conditions)

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.



May 20hl Bio Paper 1

Robert Bussel



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From Harvard to the Ranks of Labor Robert Bussel, 2010-11-01 During the first half of the twentieth century many young intellectuals and reformers sympathized with the aspirations of working people and supported the struggles of the labor movement Powers Hapgood 1899 1949 was one of the most colorful and recognizable symbols of this crucial historical relationship A Harvard graduate and the scion of a famous Progressive Era family Hapgood chose to devote his life to the working class His fascinating political career marked by a staunch commitment to workers rights and civil liberties also included important roles in the Socialist Party and the Congress of Industrial Organizations CIO Robert Bussel s book is the first full length biography of this prominent American Socialist labor organizer and social crusader Hapgood participated in some of the most stirring historical events of his time an epic coal miners strike in Western Pennsylvania an insurgent attempt to oust John L Lewis as president of the United Mine Workers of America the defense of Niccolo Sacco and Bartolomeo Vanzetti and the electrifying victories of sit down strikers in Akron Ohio and Flint Michigan In the latter stages of his career he took unpopular stands on issues of racial justice civil liberties and union democracy that foreshadowed the fault lines along which the post World War II labor movement would founder Recording and reflecting upon these experiences in journals he kept throughout his life Hapgood left behind an unusually rich chronicle of the American working class the labor movement and the practice of radical politics Hapgood s career illustrates important developments in the evolution of liberalism and radicalism the industrial union movement and the relationship between the middle and working classes in twentieth century America At a time when the American labor movement is attempting to recruit young people forge a rapprochement with liberals and reclaim its role as a voice for American workers the appearance of a Hapgood biography is timely

Aldous Huxley Nicholas Murray, 2003-03-24 A generous and intelligent biography of the twentieth century luminary and author of Brave New World The Guardian UK When Aldous Huxley died in 1963 he was considered one of the most important English writers of the twentieth century Known for his dystopian satire Brave New World and his experimentation with drugs that preceded the 1960s psychedelic a term he invented era Huxley seemed to embody the condition of twentieth century man in his restless curiosity his search for meaning in a post religious age and his concern about the misuses of science and the future of the planet This biography of Huxley draws on unprecedented access to the author s private papers as well as numerous interviews with his family and friends It is a portrait of a daring and iconoclastic novelist a man hampered by semi blindness who spent a restless life in search of personal enlightenment Nicholas Murray charts Huxley s Bloomsbury years his surprising and complex relationship with D H Lawrence and his emigration to America in the late 1930s where he pursued a career as a screenwriter while continuing his fascination with mysticism and religion Huxley s private life was also unconventional and this book reveals for the first time the extraordinary story of the m nage trois including Huxley his remarkable wife Maria and the Bloomsbury socialite Mary Hutchinson Huxley is revealed as one of

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