

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.
- Bile 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. 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 stem 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)

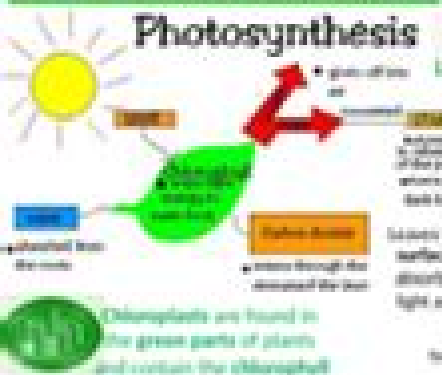
Denatured

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.



Enzymes are biological catalysts (they speed up reactions but aren't used up)

Leaves are adapted for photosynthesis

- Large surface area to absorb as much light as possible
- Thin leaves to allow light to pass through the mesophyll cells
- Stomata to allow CO₂ to enter and O₂ to leave
- Chloroplasts to absorb light energy

Glycose

The xylem brings water to the leaves from the roots. The phloem transports the sugars made in photosynthesis to the rest of the plant.

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.

Limiting Factors

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