

cells

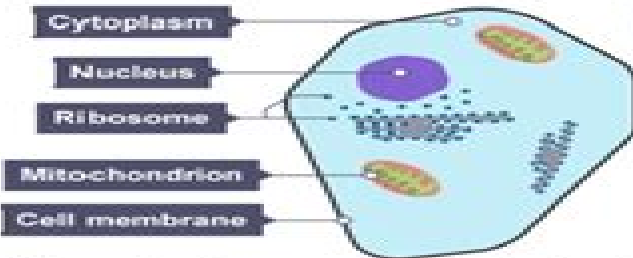
& CELL ULTRASTRUCTURE

WHAT ARE CELLS?

- Cells are the 'building blocks' of all living organisms
- Most animal and plant cells are between 0.01 – 0.10 mm in size, so in order to see them we must use microscope

WHAT ARE ANIMAL CELLS?

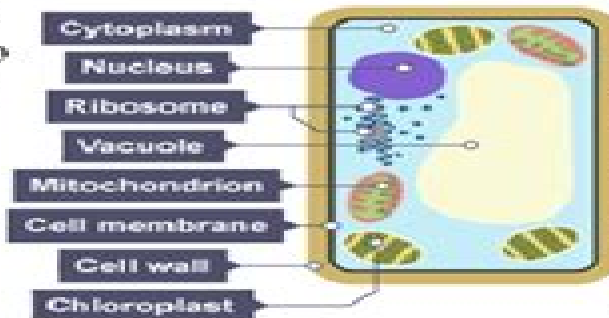
- Animal cells are made up of the following organelles:



- The cytoplasm contains dissolved nutrients & salts, and is where most chemical reactions take place
- The nucleus, containing genetic material, controls the cell's activities
- The ribosomes are where protein synthesis occurs
- The mitochondria contain enzymes for respiration
- The cell membrane is partially permeable which allows it to control the movement of substances into and out of the cell

WHAT ARE PLANT CELLS?

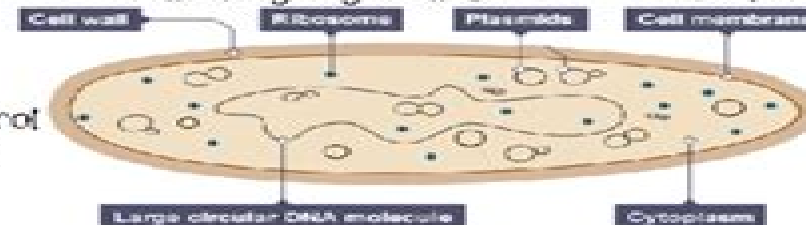
- Plant cells are made up of the following organelles:



- The permanent vacuole is filled with cell sap which keeps the cell turgid
- The cell wall, made from cellulose fibres, strengthens the cell which supports the plant
- The chloroplasts contain the green pigment, chlorophyll, which absorbs light energy used in photosynthesis

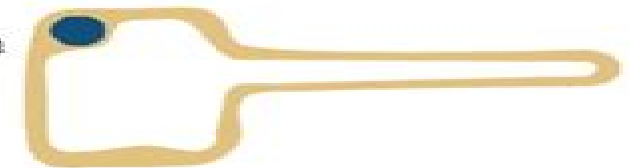
WHAT ARE BACTERIAL CELLS?

- Bacterial cells are made up of the following organelles:



HOW ARE CELLS SPECIALISED?

- Different cells have different functions, and they are specialised in these different functions to ensure an organism functions as a whole
- If an organism is made of a single cell, it is unicellular
- If it is made up of many different cells, it is multicellular
- Root hair cells are specialised to take up water molecules from the soil, and in order to maximise the rate of osmosis, they have a very large surface area and thin walls



- Bacterial cells do not have a nucleus, instead they have circular pieces of DNA called plasmids and a large circular DNA molecule
- This means that they are prokaryotic cells, whereas plant and animal cells are eukaryotic, as they have nuclei

Answers Key For Biology Cell Cell Structure

Michael Hoelscher



Answers Key For Biology Cell Cell Structure:

Answers Key For Biology Cell Cell Structure Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Answers Key For Biology Cell Cell Structure**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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