

cells

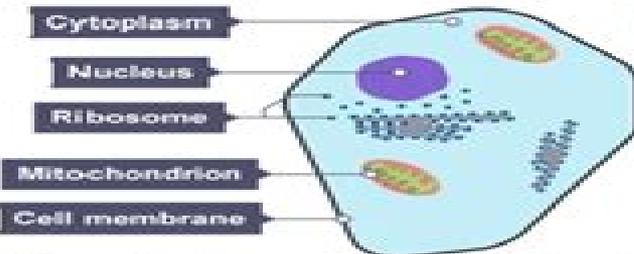
& CELL ULTRASTRUCTURE

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?

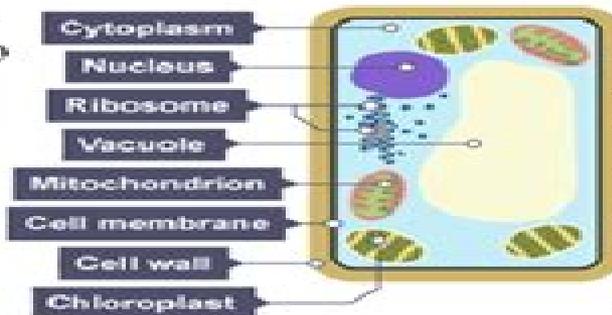
- Animal cells are made up of the following organelles:



- 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?

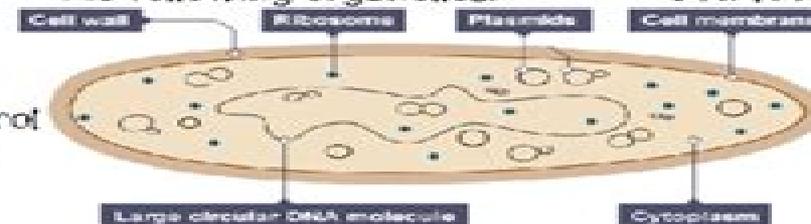
- Plant cells are made up of the following organelles:



- 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

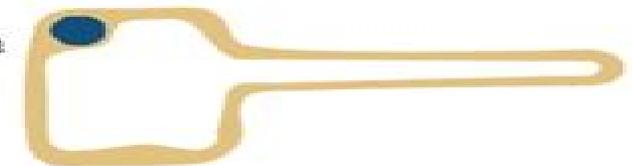
WHAT ARE BACTERIAL CELLS?

- 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

Chapter 4 Cells Cell Structure Cell Transport

Terry C. Jones



Chapter 4 Cells Cell Structure Cell Transport:

Chapter 4 Cells Cell Structure Cell Transport Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Chapter 4 Cells Cell Structure Cell Transport**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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