

cells

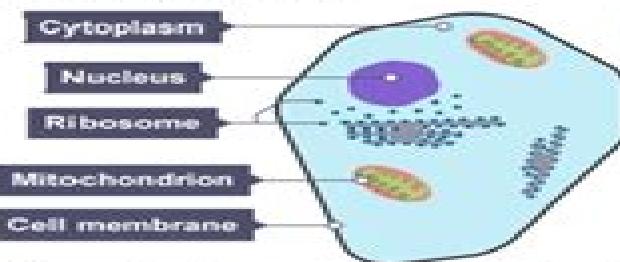
& CELL ULTRASTRUCTURE

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?

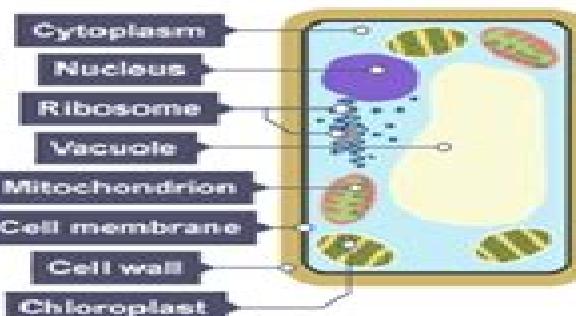
- Animal cells are made up of the following organelles:



- 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

Cell Structure Guide

**John E. Readence, Thomas W. Bean, R.
Scott Baldwin**

Cell Structure Guide:

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