

cells

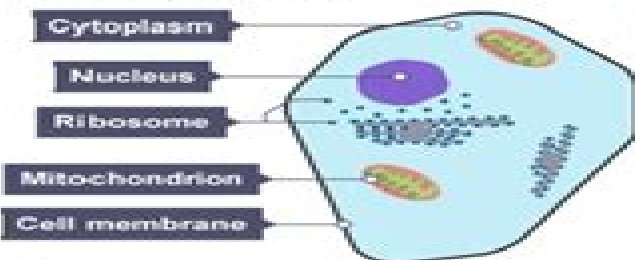
& CELL ULTRASTRUCTURE

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?

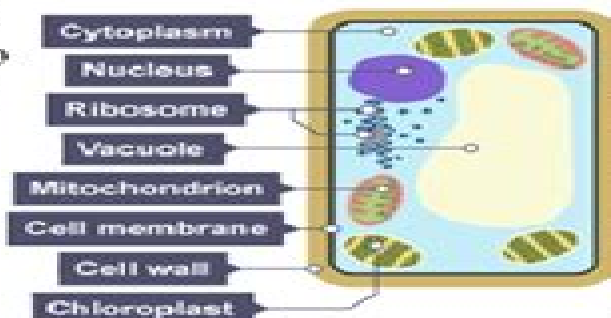
- Animal cells are made up of the following organelles:



- 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?

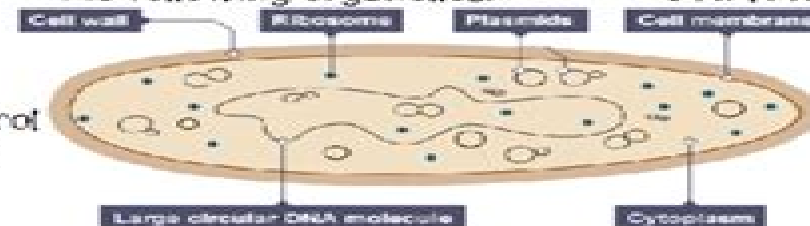
- Plant cells are made up of the following organelles:



- 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

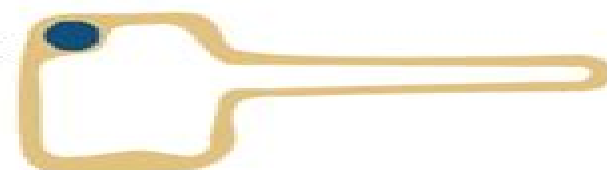
WHAT ARE BACTERIAL CELLS?

- 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**



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provides an examiner's overview of the module's key terms and concepts and identifies opportunities to exhibit the skills required by the unit. It is designed to help students to structure their revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics. Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit. All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner.

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