

BIOLOGY NOTES

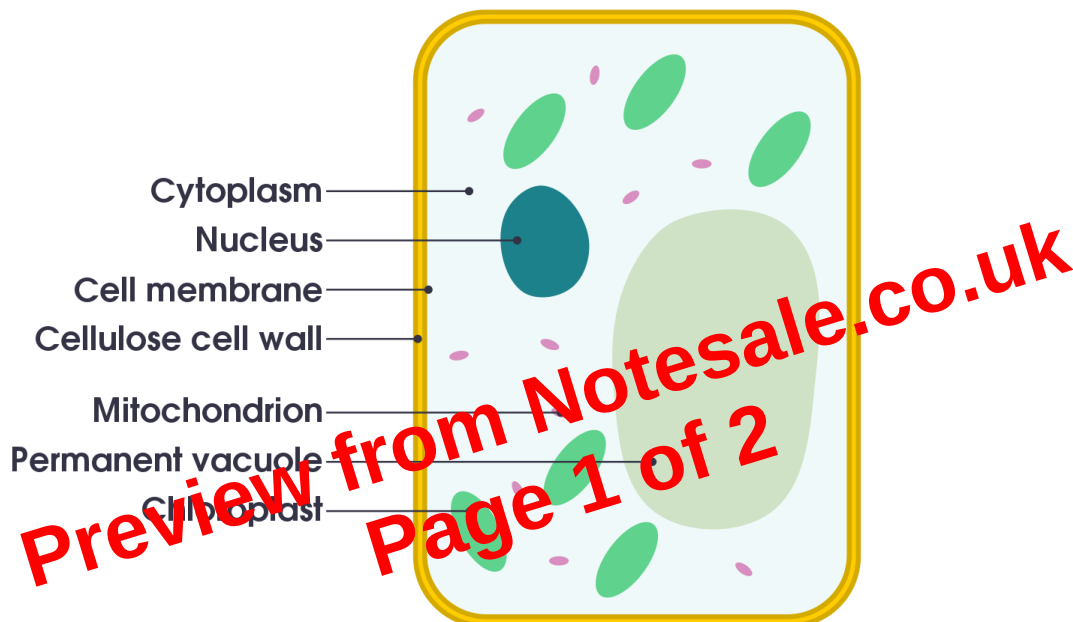
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The two types of cells that are in subtopics 1.1 and 1.2 are plant cells and animal cells.

Plant Cells

We will first look at plant cells . As shown in the diagram below, the unique feature of a plant cell is that it contains an organelle known as chloroplast which is used to turn light energy into food in a process called photosynthesis . Plant cells have a fixed shape to help maintain its shape and protects the cell . The cell membrane helps to control what goes in and out of the cell. The nucleus is basically the control centre of the plant cell and controls activities like the brain of the plant cell . The sap vacuole or in the diagram below , portrayed as a permanent vacuole, helps to store sugars dissolved in water. Inside the mitochondrion, energy is released from food taken in by the plant cell. Finally, the cytoplasm makes chemical reactions that keep a plant cell alive.



Animal Cells

Animal cells are different from plant cells even though they have similar properties. An animal cell does not have chloroplast, sap vacuole and cell wall. An animal cell contains only a cell membrane, nucleus, mitochondrion and cytoplasm. Humans are made of animal cells