

This is some GCSE detailed notes on the topic of cells. (science)

Organelle	Function	Found in animal cell?	Found in plant cell?
Nucleus	Controls the activities of the cell. The DNA is organised into chromosomes.	yes	yes
Cytoplasm	This is where most of the chemical reactions in the cell take place.	yes	yes
Cell membrane	Controls the passage of substances into and out of the cell.	yes	yes
Cell Wall	An additional layer outside the cell membrane. This is made from cellulose.	no	yes
Mitochondria	This is where aerobic respiration takes place. Releases energy that can be used for other processes. Glucose reacts and creates energy.	yes	yes
Vacuole	Filled with cell sap, Permanent structures in plants. Membrane helps to maintain the shape of the cell.	no	yes
Chloroplast	This is a structure in the plant where photosynthesis takes place. This contains chlorophyll.	no	yes
ribosome	Protein synthesis takes place.	yes	yes