The Practise Ground

Class 9-11 Biology

Cell Structure & Organelles

The unit of life and its working parts

1 Nucleus

Control centre

Holds DNA and directs all cell activity

2 Mitochondria

Powerhouse of the cell

Releases energy (ATP) from glucose by respiration

3 Chloroplast

Food factory (plant cells only)

Traps sunlight for photosynthesis

4 Cell wall

Support (plant cells only)

Made of cellulose; gives the cell a fixed shape

ER	Golgi	Ribo	Lyso	Vac
endoplasmic reticulum	**Golgi apparatus**	**ribosomes**	**lysosome**	**vacuole**
transport	packing	proteins	digestion	storage

Remember

Plant cells have a cell wall, chloroplasts and a large vacuole. Animal cells do not.

Both have a nucleus, cell membrane, cytoplasm and mitochondria.

Quick question

Which organelle makes proteins?

Ribosomes, found free in the cytoplasm or on the rough ER.

Think you've got it? Test yourself.

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