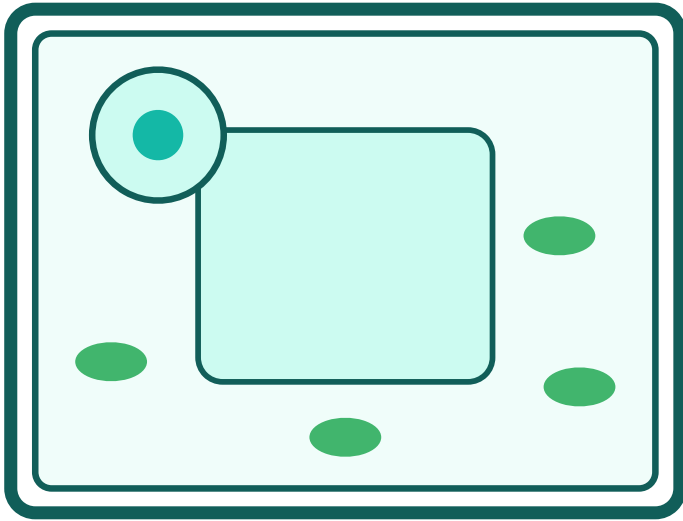


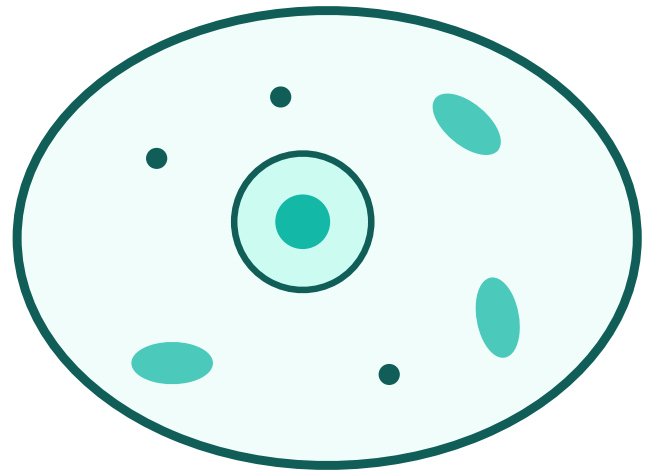
Cell Structure & Function

9th Grade

Every organelle with its job, plus transport across the membrane.



PLANT



ANIMAL

ORGANELLES BY JOB

Nucleus

Control centre — holds the DNA.

Cell membrane

Decides what gets in and out.

Cytoplasm

Jelly where the reactions happen.

Mitochondria

Releases energy from sugar.

Ribosomes

Build proteins.

Endoplasmic reticulum

Transport network for proteins and fats.

Golgi body

Packages and ships what the cell makes.

Vacuole

Storage. Large and permanent in plants.

Cell wall

Rigid outer layer — gives shape and strength.

Chloroplast

Makes food using sunlight (photosynthesis).

Transport: diffusion (high → low) · osmosis (water) · active transport (needs energy).