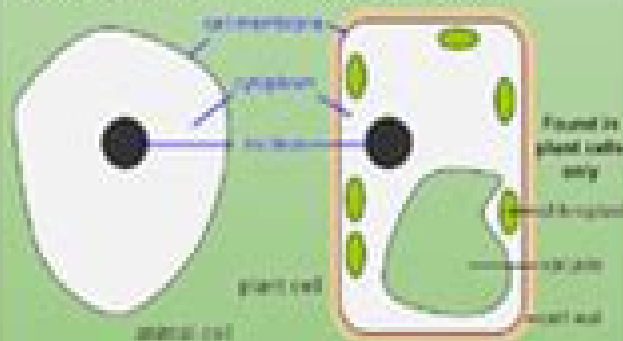


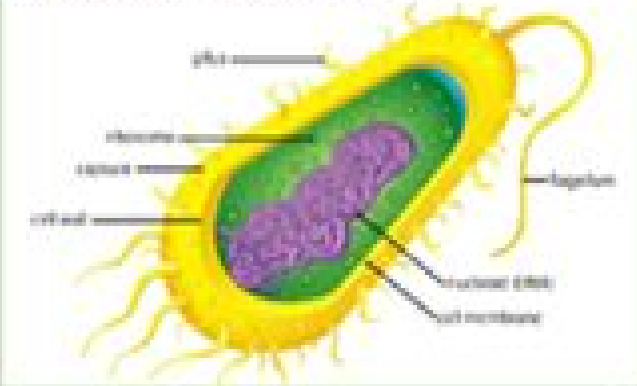
EUKARYOTIC CELLS (more complex):



Nucleus contains genetic material that control activity of cells
Cytoplasm gel-like substance where most chemical reactions take place
Cell membrane hold the cell together and controls what enters & leaves
Mitochondria is where most reaction for aerobic respiration takes place → makes energy
Ribosomes where proteins are made in the cell

Cell wall made of cellulose, supports & strengthens the cell
Permanent vacuole contains cell sap, a weak solutions of salt & sugar
Chloroplast is where photosynthesis takes place (makes glucose), contains chlorophyll pigment which absorbs light

PROKARYOTIC CELLS (more simple):



Light microscopes	Electron microscopes
Lower magnification, power of x2000	Higher magnification, power of x2,000,000
Lower resolution	Higher resolution
Can be used on live specimen	Cannot be used on live specimen
Uses light & lenses to form image	Uses electrons to form image
Able to see individual cell & large subcellular	Able to see internal structure of

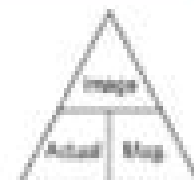
BIOLOGY B1

Cell structure, transport in cells

Differentiation:

the process by which a cell changes to become specialised for its job

$$\text{magnification} = \frac{\text{image size}}{\text{actual size}}$$



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$\times 1000$
 Km m mm μm nm

• In animals, the ability to differentiate is lost at an early stage when they become specialised

• Here are some examples...

ANIMAL Cell	Function	Adaptations
Sperm cell	Bring male DNA to female DNA & fertilise egg	- Long tail, streamlined head help it to swim - Many mitochondria provide energy - Enzymes in head allow it to digest through egg cell membrane
Egg cell	To be fertilised	Contains yolk which provides food store for new cell being developed
Epithelial cell	Prevent lung damage (lines inner & outer surfaces)	Contains cilia (tiny hairs) which sweep mucus back up throat
Nerve cell	Carry electrical signals	- Long & have branched connections to form network throughout body - Have dendrites at each end to connect to other nerve cells
Red blood cell	Carry oxygen	- Large surface area for oxygen to pass through - Contains haemoglobin which binds with oxygen - Lacks a nucleus to give more space for oxygen it carries
Muscle cells	Contract & relax	Have many mitochondria to provide energy

Biology B1 Gcse Revision

Xiaolong Qi



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