Cells

Answers

KS3 science quick questions

This topic online

Activate 1: Cells; Activate 3: Cells | Exploring Science 7A, 8D

Q	Answer	Remember
1	nucleus	The nucleus is the cell's control centre. It holds DNA.
2	cell membrane	Think of the membrane as a gatekeeper at the door.
3	cytoplasm	Cytoplasm fills the cell, a bit like the jelly in a jelly pot.
4	mitochondria	Mitochondria are the cell's power stations.
5	chloroplasts	Chloroplasts contain chlorophyll, which makes leaves green.
6	cell wall	Animal cells have no cell wall, which is why they are more floppy.
7	vacuole	A full vacuole presses outwards, so the plant stands up straight instead of wilting.
8	animal cell	Wall, chloroplasts and a big vacuole are the three plant-only extras.
9	tissue	The order is cell, tissue, organ, organ system, organism.
10	organ	An organ is several tissues teaming up to do one job.
11	unicellular	Uni means one, as in unicorn (one horn).
12	amoeba	An amoeba also surrounds its food to swallow it.
13	diffusion	This is how the smell of toast spreads through a house.
14	sperm cell	The tail is for swimming, and lots of mitochondria give it energy.
15	x400	Multiply the two lenses: 10 × 40 = 400.
16	x40	Total = eyepiece × objective, so objective = 400 ÷ 10 = 40.
17	haemoglobin	Haemoglobin carries oxygen, so more of it means more oxygen carried.
18	0.05 mm	real size = image size / magnification, so 20 / 400 = 0.05 mm.
19	outside	Particles always diffuse from high concentration to low concentration.
20	It is underground in the dark, so it gets no light for photosynthesis.	Not every plant cell has chloroplasts, but every plant cell has a cell wall.

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