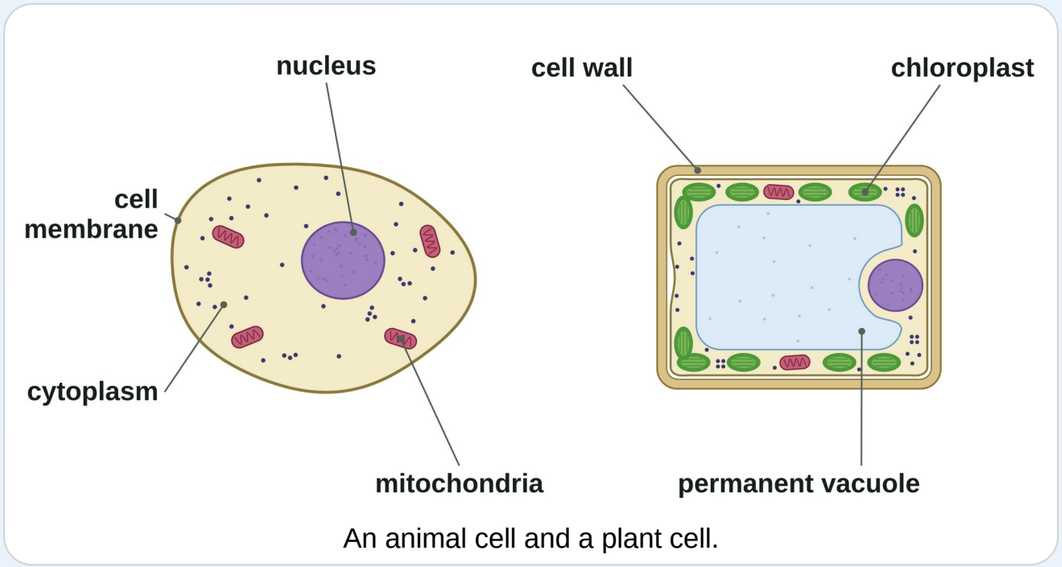
B1 L1 Alternative worksheet: Animal and plant cells

Name: _____ Class: _____

Key facts

- All living things are made of **cells**.
- Animal and plant cells both have a **nucleus**, **cytoplasm**, a **cell membrane**, **mitochondria** and **ribosomes**.
- Plant cells also have a **cell wall**, and often a **permanent vacuole** and **chloroplasts**.
- The **nucleus** controls the activities of the cell. The **cell membrane** controls what goes in and out.
- **Mitochondria** release energy. **Ribosomes** make proteins.
- **Chloroplasts** absorb light to make food. The **cell wall** strengthens the cell.
- Plant cells have mitochondria too.



An animal cell and a plant cell.

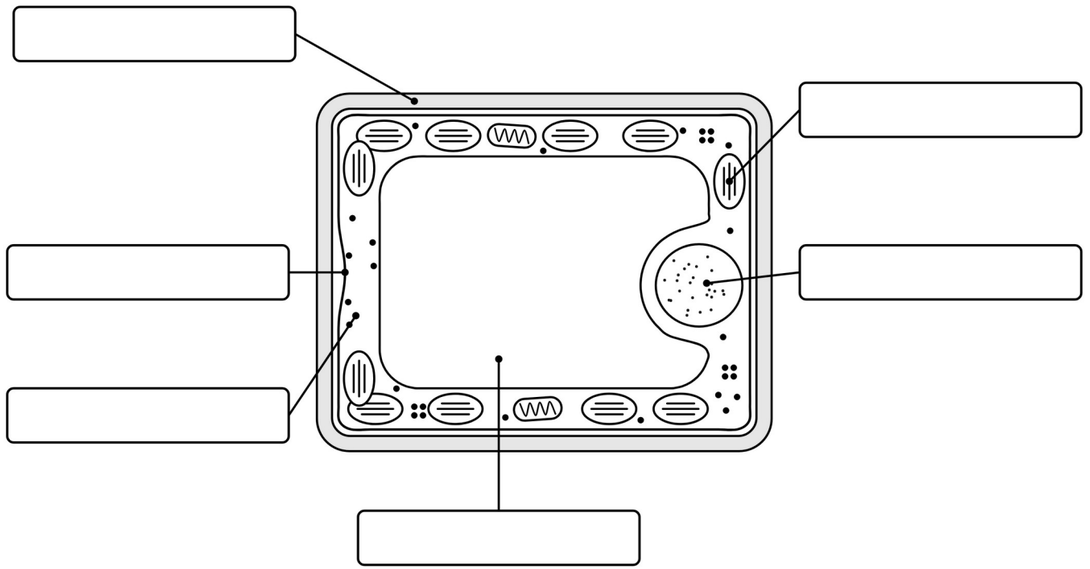
A diagram is simplified. Only the green of the chloroplasts is a real colour.

A. Label the plant cell

Help: online screen 6 [6]

Write a word from the box in each label box.

cell membrane	**cell wall**	**chloroplast**
cytoplasm	**nucleus**	**permanent vacuole**



Tip: the cell wall is the outside layer. The cell membrane is just inside it.

B1 L1 Alternative worksheet: Animal and plant cells

Name: _____ Class: _____

B. Match the part to its job

Help: online screens 3 and 6 [5]

Draw a line from each part to its job.

nucleus	●	● make proteins
cell membrane	●	● absorb light to make food
mitochondria	●	● controls the activities of the cell
ribosomes	●	● release energy by respiration
chloroplasts	●	● controls what goes into and out of the cell

C. Sort the parts

Help: online screen 7 [6]

Write each part in the correct column.

cell wall **cell membrane** **chloroplasts**
mitochondria **nucleus** **permanent vacuole**

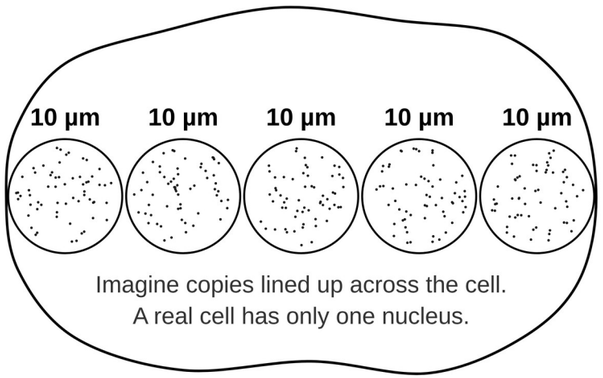
In animal and plant cells	In plant cells only

D. How big?

Help: online screen 9 [4]

(a) Number these from 1 (smallest) to 4 (largest). [2]

☐ **cheek cell** ☐ **ribosome** ☐ **nucleus** ☐ **mitochondrion**



(b) How many nuclei fit across the cell?

_____ [1]

(c) Each nucleus is 10 µm wide. Fill the gap:

5 × 10 = _____ µm

So the cell is about this wide. [1]

E. True or false?

Help: online screens 2, 3, 7, 10 and 11 [6]

Tick (✓) True or False for each sentence.

Sentence	True	False
1. Plant cells have mitochondria.		
2. Animal cells have a cell wall.		
3. Every plant cell has chloroplasts.		
4. The cell membrane controls what goes into and out of the cell.		
5. Mitochondria make energy.		
6. In a micrograph, the blue colour of cheek cells comes from a stain.		