

Recap activity: <u>Describe</u> the seven different life processes

LO: How plant and animal cells are similar and different?

Developing: Identify the cell nucleus, cell membrane and cytoplasm on a diagram of a cell.

Securing: List the main features commonly found in plant and animal cells.

Exceeding: Justify the classification of an organism as an animal or plant based on cell structure.

Extending: Suggest reasons for differences between plant and animal cells (in terms of their function).

The 7 Life Processes

Movement Reproduction Sensitivity

Growth
Respiration
Excretion
Nutrition



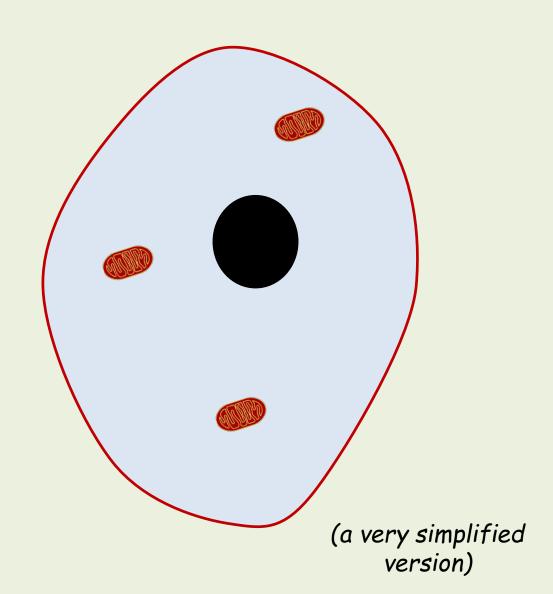
Basic building blocks of life





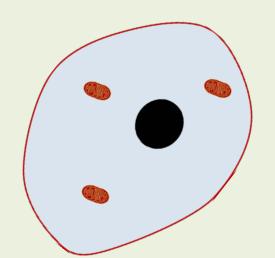


An animal cell:



Animal Cells

Starting at developing, make your way through the tasks looking at animal cells. Use the accompanying information sheets to help you.



Developing

<u>Draw</u> a diagram of an animal cell.

Securing

Label the cell membrane, nucleus and cytoplasm.

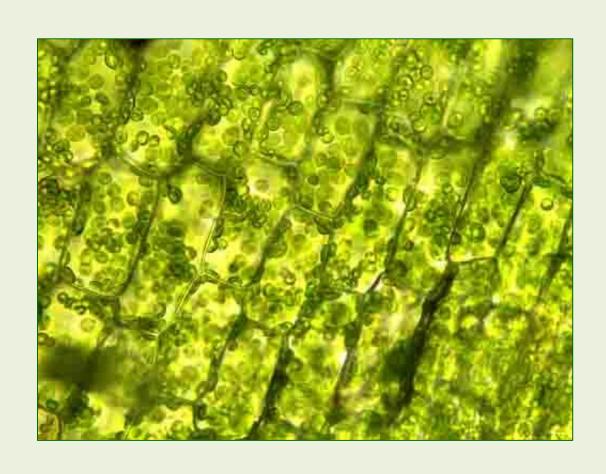
Exceeding

Add a simple description for what each part of the cell does.

Extending

<u>Draw</u> and <u>label</u> the mitochondria on your diagram. <u>Describe</u> what happens here.

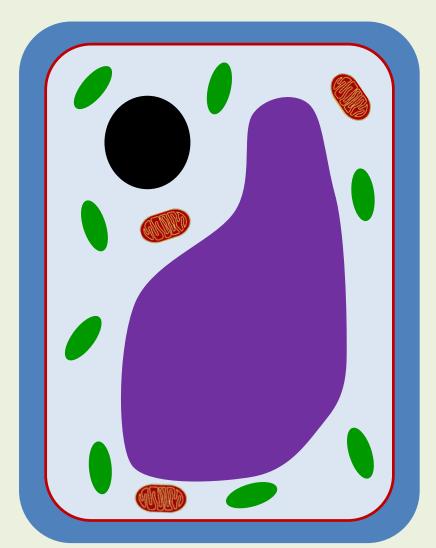
Plant cells are different to animal cells.







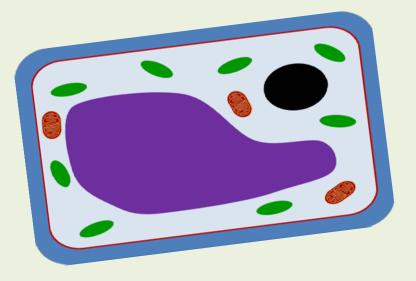
A plant cell:



(a very simplified version)

Plant Cells

Starting at developing, make your way through the tasks looking at plant cells. Use the accompanying information sheets to help you.



Developing

<u>Draw</u> a diagram of a plant cell.

Securing

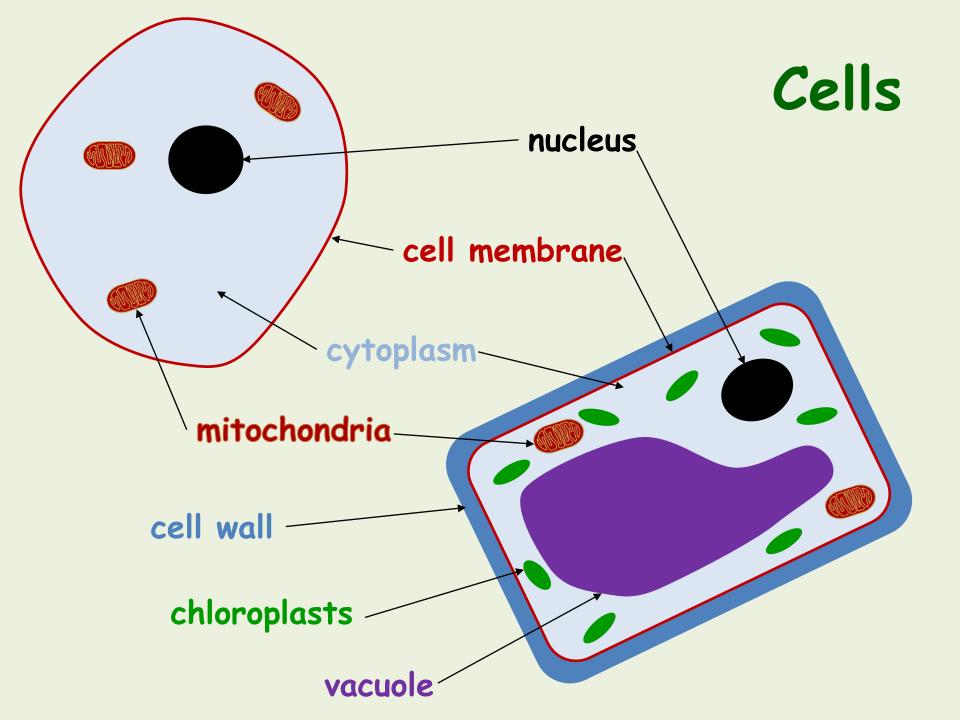
Label the cell membrane, nucleus, cytoplasm, cell wall, chloroplasts and vacuole.

Exceeding

Add a simple description for what each part of the cell does.

Extending

<u>Describe</u> how animal and plant cells are different.



Comparing Cells

	PLANT CELL	ANIMAL CELL
Has a cell wall		X
Has a nucleus		
Has a cell membrane		
Has a vacuole		×
Has chloroplasts		X
Has a cytoplasm		
Has mitochondria		



Match up the organelles to what they do inside the cell:

Nucleus

Contains cell sap and keeps the cell firm.

Cytoplasm

Controls what happens in the cell and carries genetic information.

Cell Membrane

Controls what gets in and out of the cell.

Chloroplast

Jelly like substance where chemical reactions happen.

Vacuole

Where respiration happens (how organisms get energy).

Cell Wall

Gives the cell structure and supports it.

Mitochondria

Where photosynthesis happens (how plants get their food).

ANSWERS:

Nucleus

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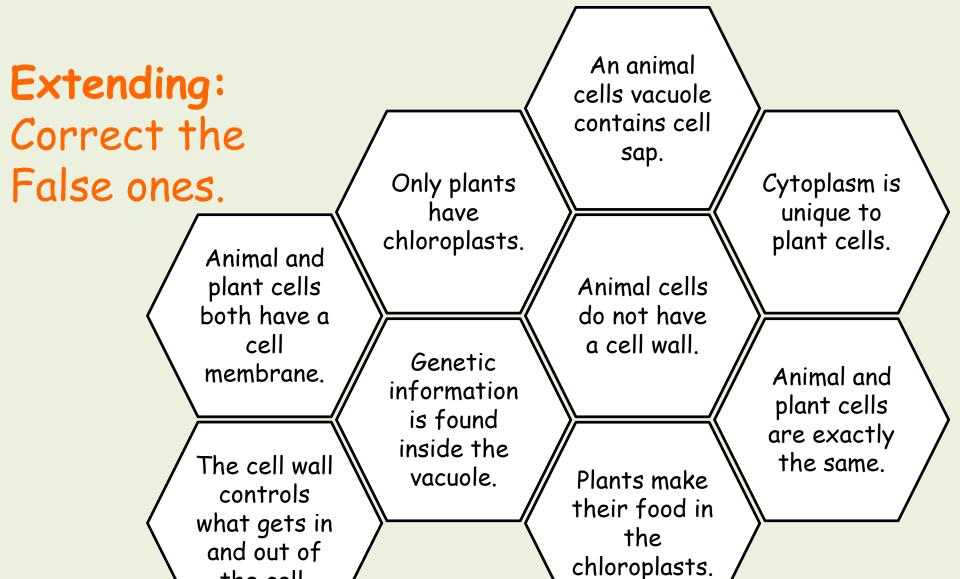
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Decide whether the statements are true or false.



the cell.