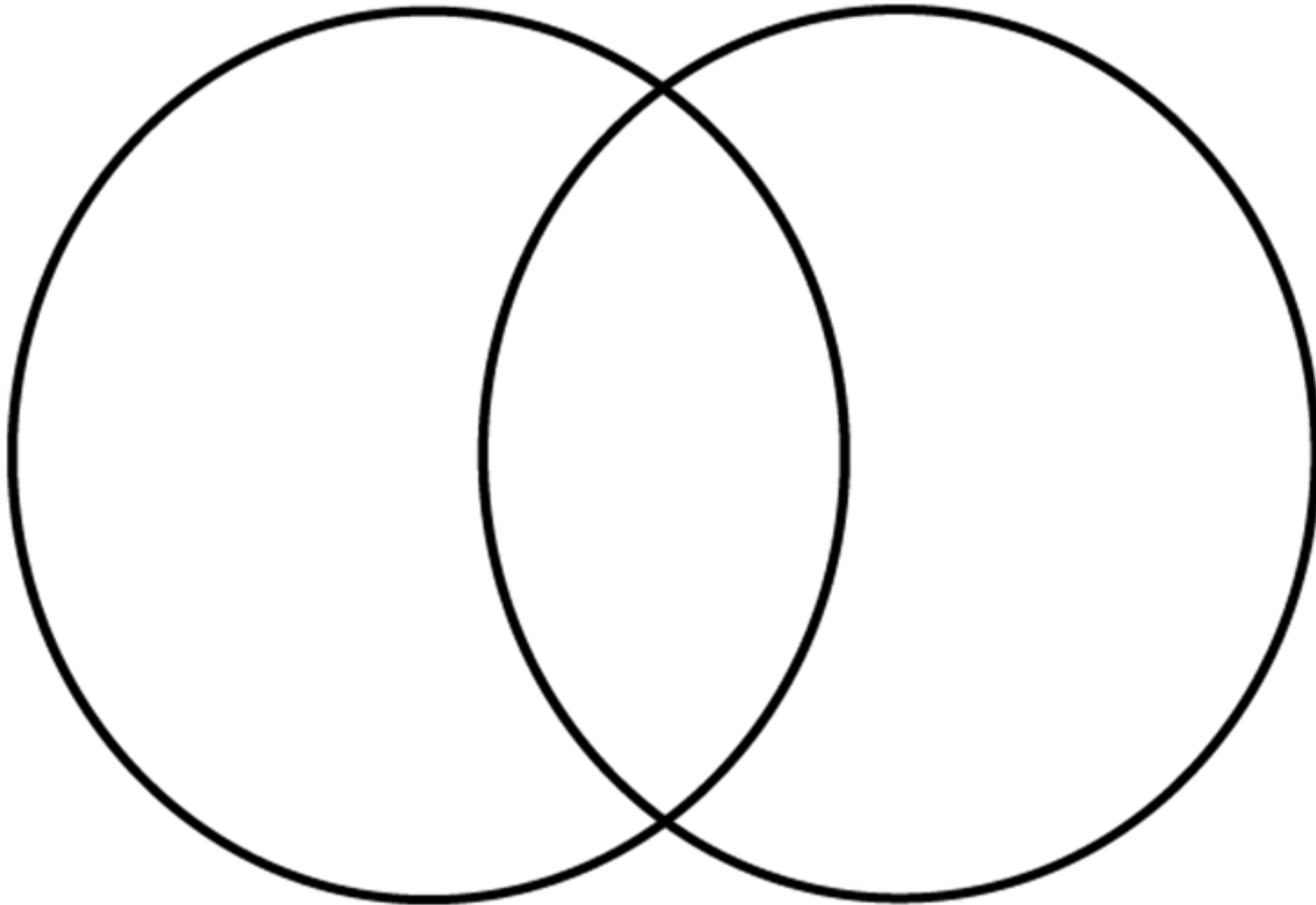


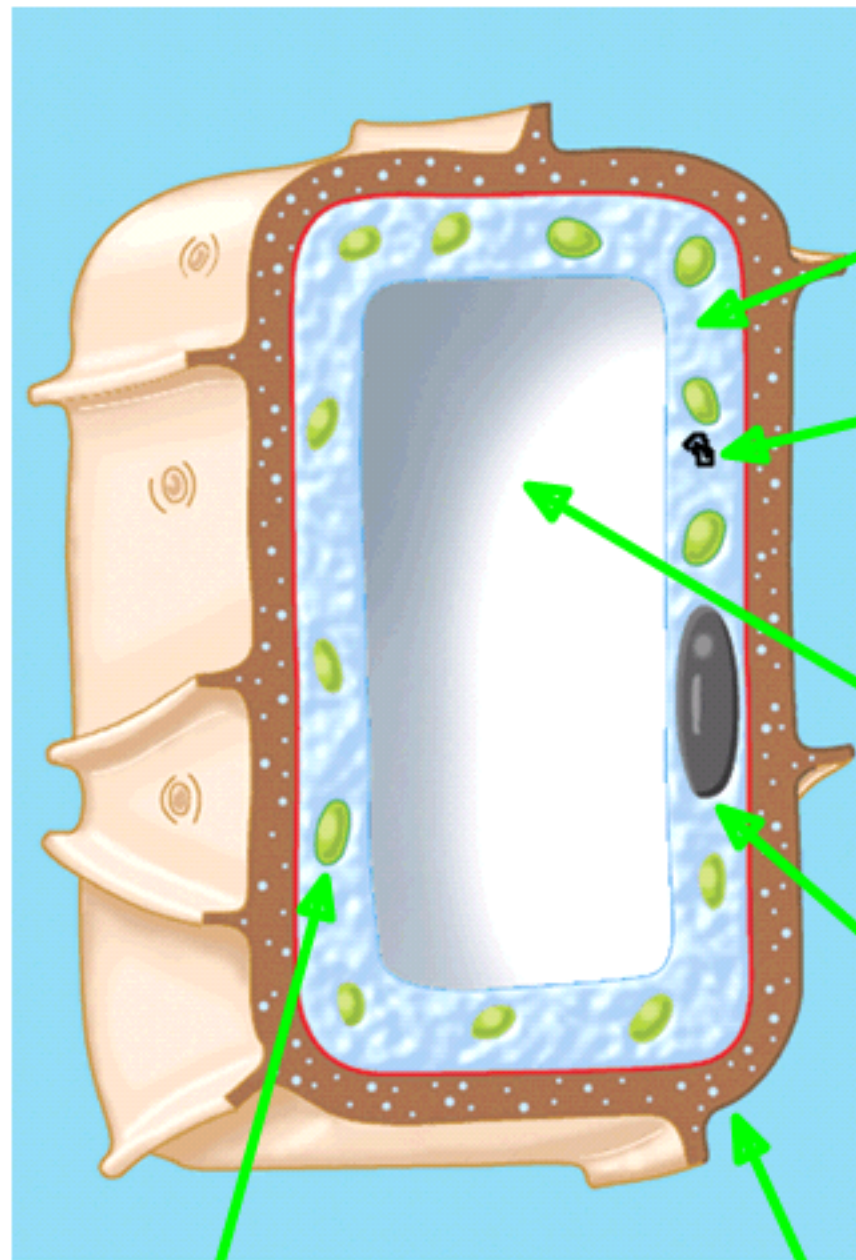
Fifth Grade: Cells

PLANT CELL

ANIMAL CELL



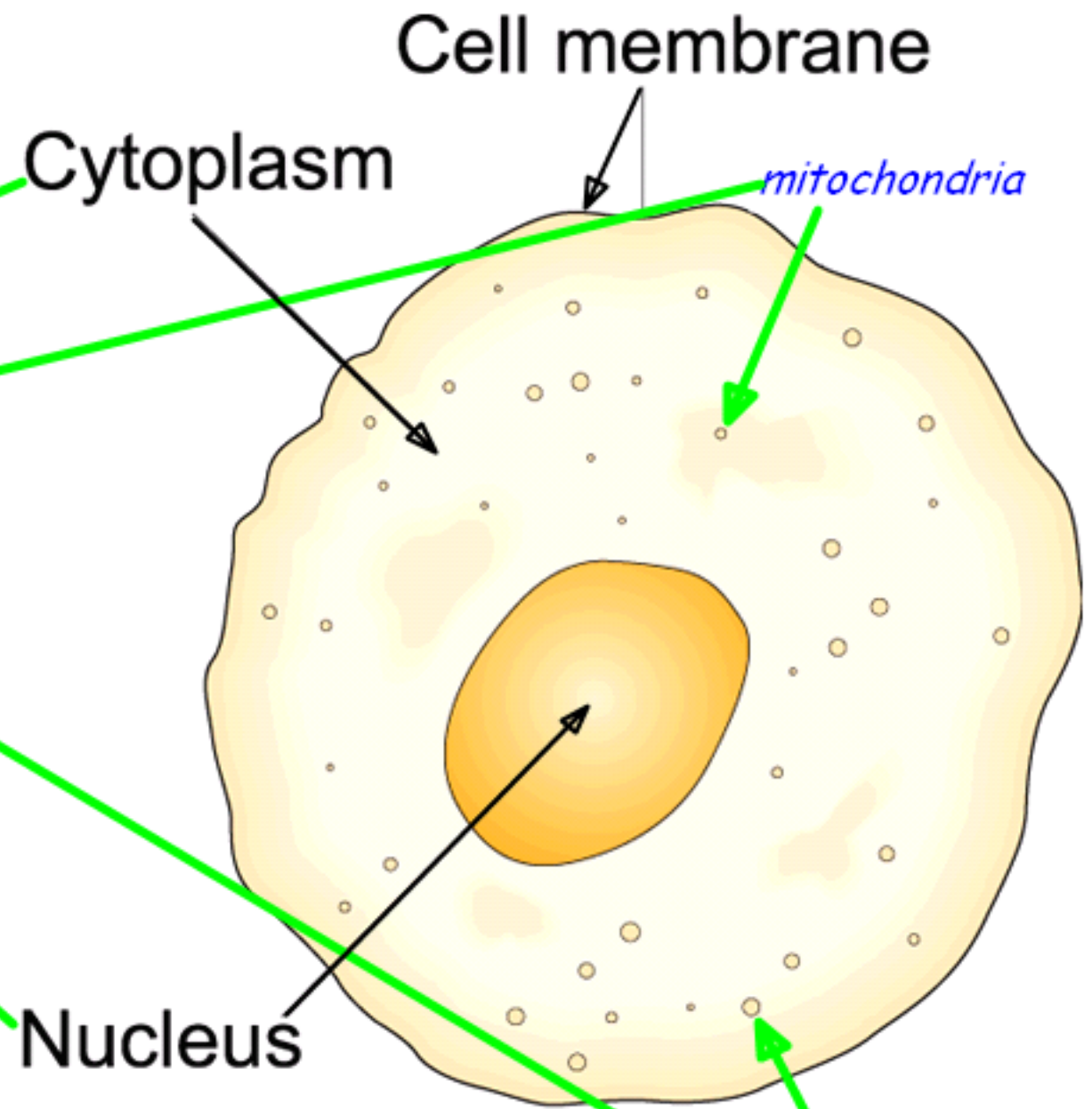
Vacuole Cell Membrane mitochondria chloroplast nucleus cytoplasm Cell Wall



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chloroplast

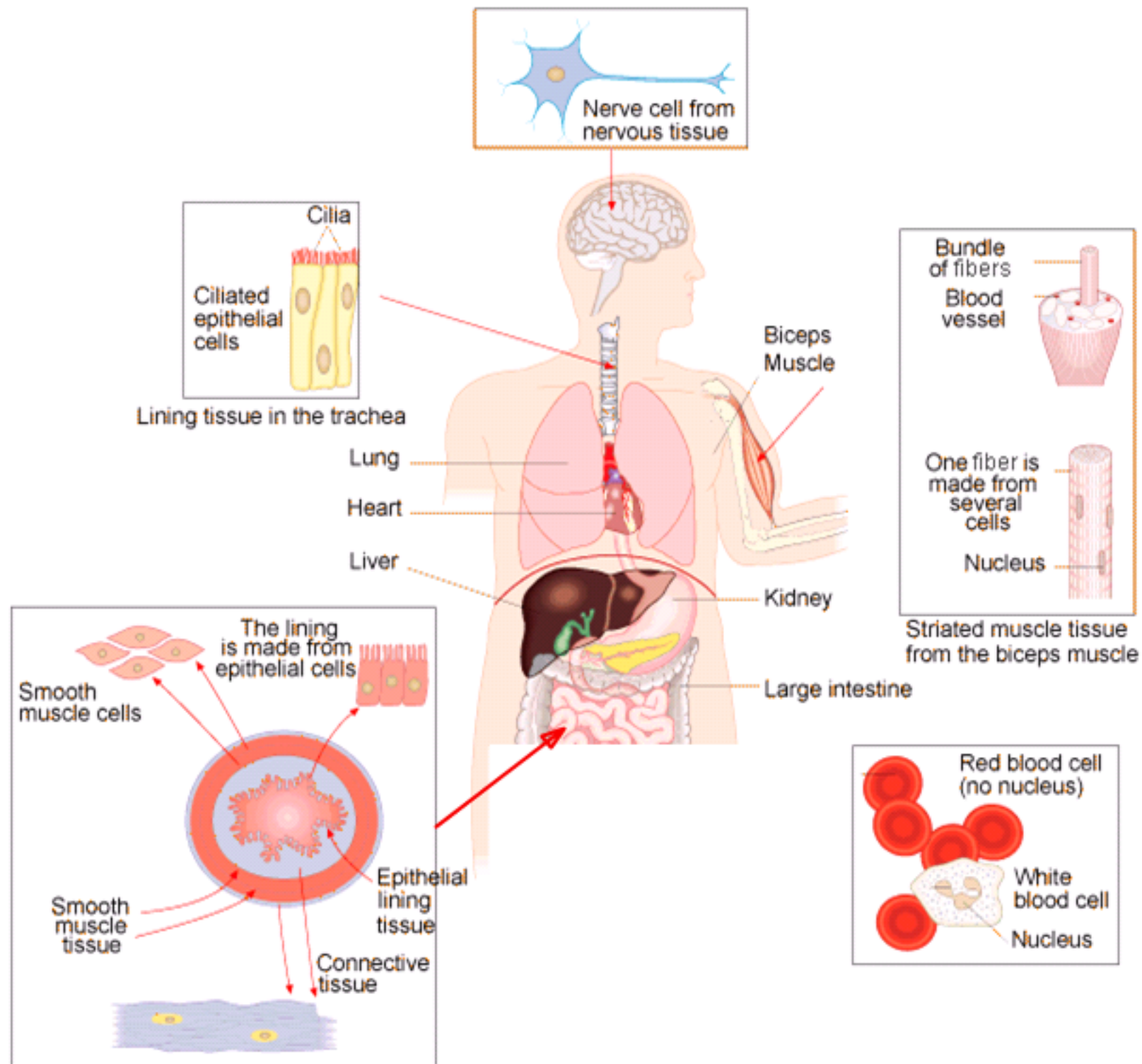
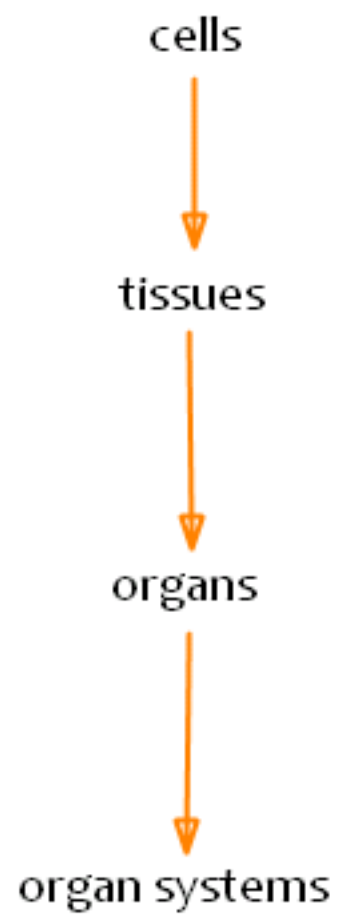
Cell wall and membrane



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mitochondria

*vacuole--is
one bigger?*



Fill in the diagram for plant/animal cells.

In the margin, answer the two thinking questions...
(on your own, please)

Thinking Questions:

- 1) A plant cell has a thick cell wall and large vacuoles but it does NOT seem to have chloroplasts. It's alive, so where in the plant might you find this cell?
- 2) A single unicellular bacterium divides every 30 minutes (half hour). How many bacterial cells will there be after just 4 hours?

Turn the page over and plan how to make your cells.
On the line next to the item, write what you would use it for...you are representing the parts of a cell!

Cells in a Baggie Lab!

1) Write the names of the people at your table on an index card.

2) Look at the letter on the tape at the front of your table...S is ~~animal~~ *plant*, Q is ~~plant~~ *animal*.

3) Work together to make a model of your cell type using the supplies you are provided.

4) Put your cell and the index card with names into the grey bin at the front of the room...we'll refrigerate and look at them tomorrow.

Please turn in:
Brochure into
orange folder--two
research pages staple
to a rubric...

- 1) Constructive/Destructive
- 2) research page(s)

2-2-11

Cells

Organism : a living thing

Cell : Smallest unit of organisms
that carries out life

* 2 main groups of organisms *



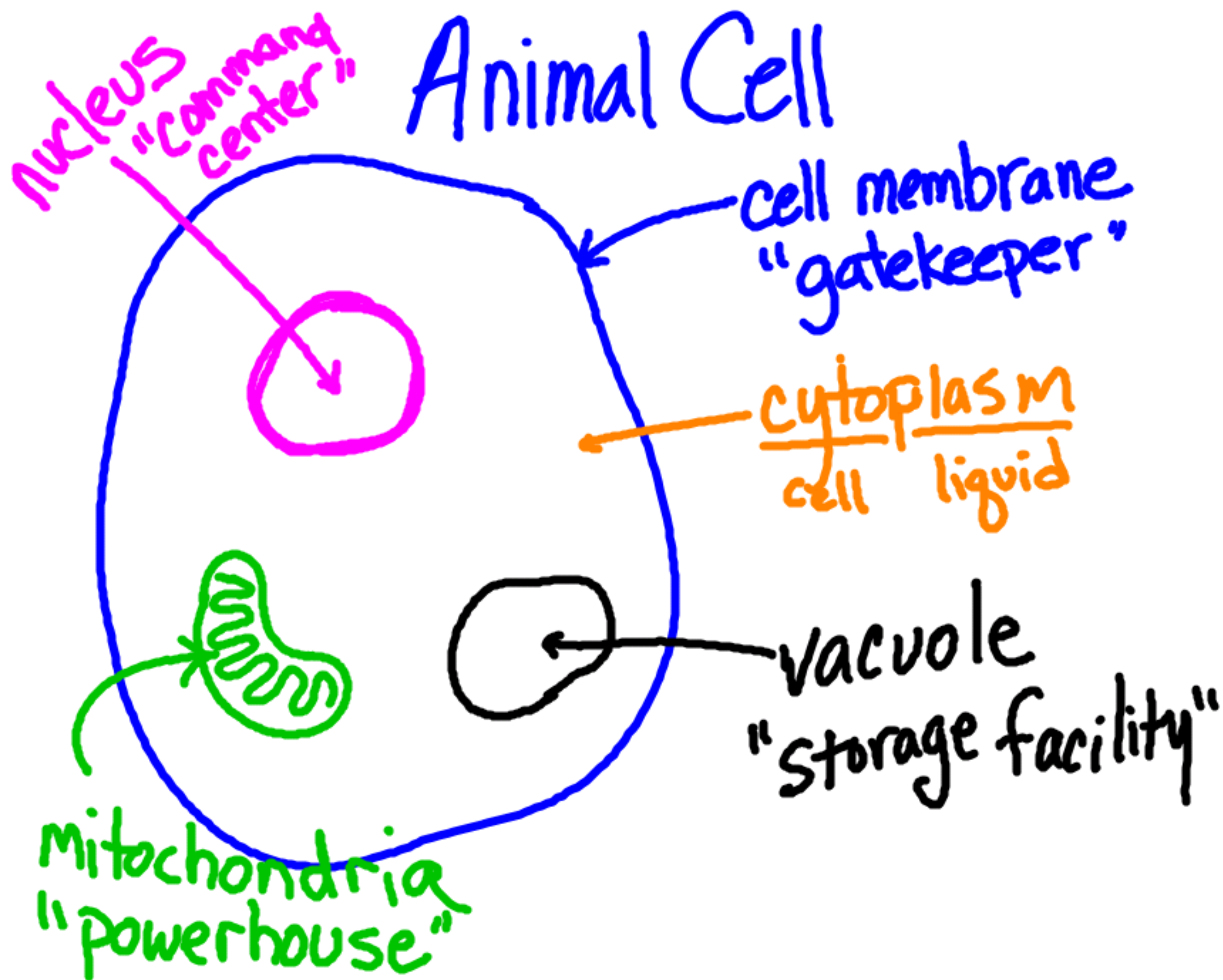
Unicellular

- Single cell

Multicellular

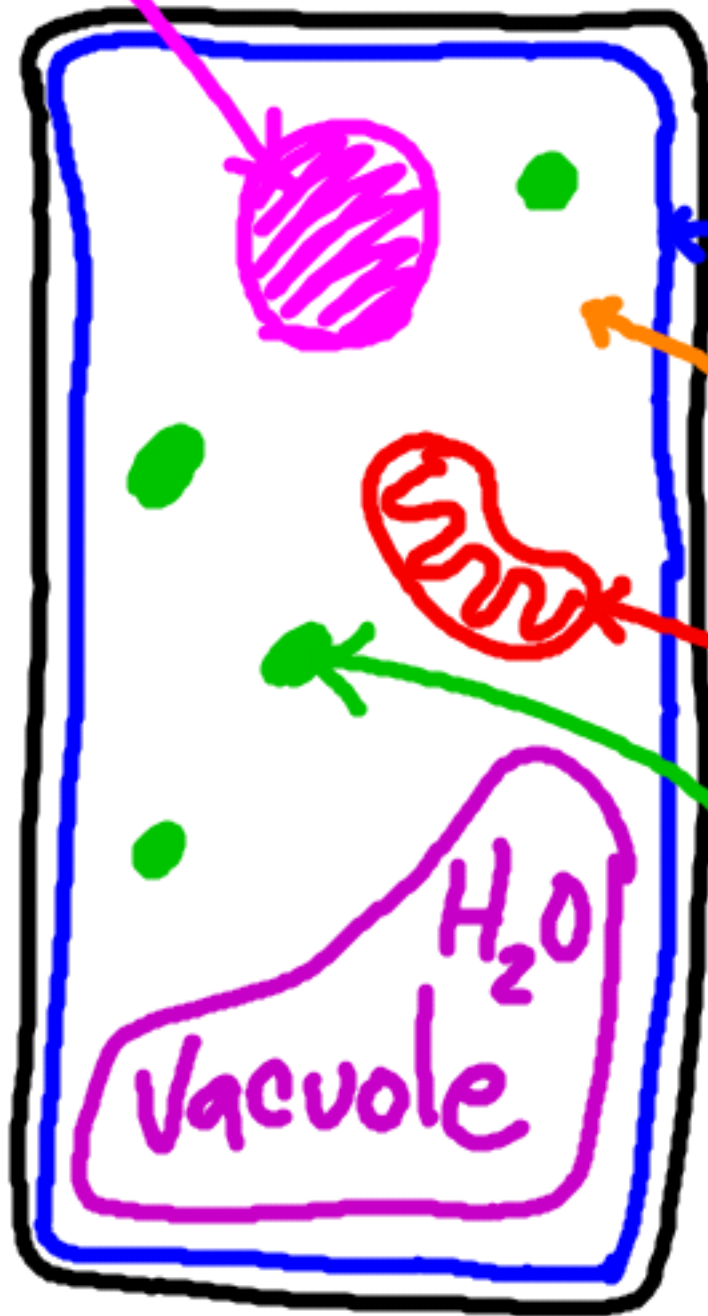
- many cells

Animal Cell



Plant Cell

nucleus



← cell wall "structure"

← cell membrane
"gatekeeper"

← Cytoplasm (cell liquid)

← mitochondria

← Chloroplast
green b/c they have
Chlorophyll

Multicellular animals are organized.

Cells



tissues

(cells working together)



(tissues working together) Organs



organ systems

2-2-11

CELLS

Cells: Smallest unit of living things that carry out life processes

Organism: living thing

Unicellular
one-celled

Multicellular
many-celled

Animal Cell

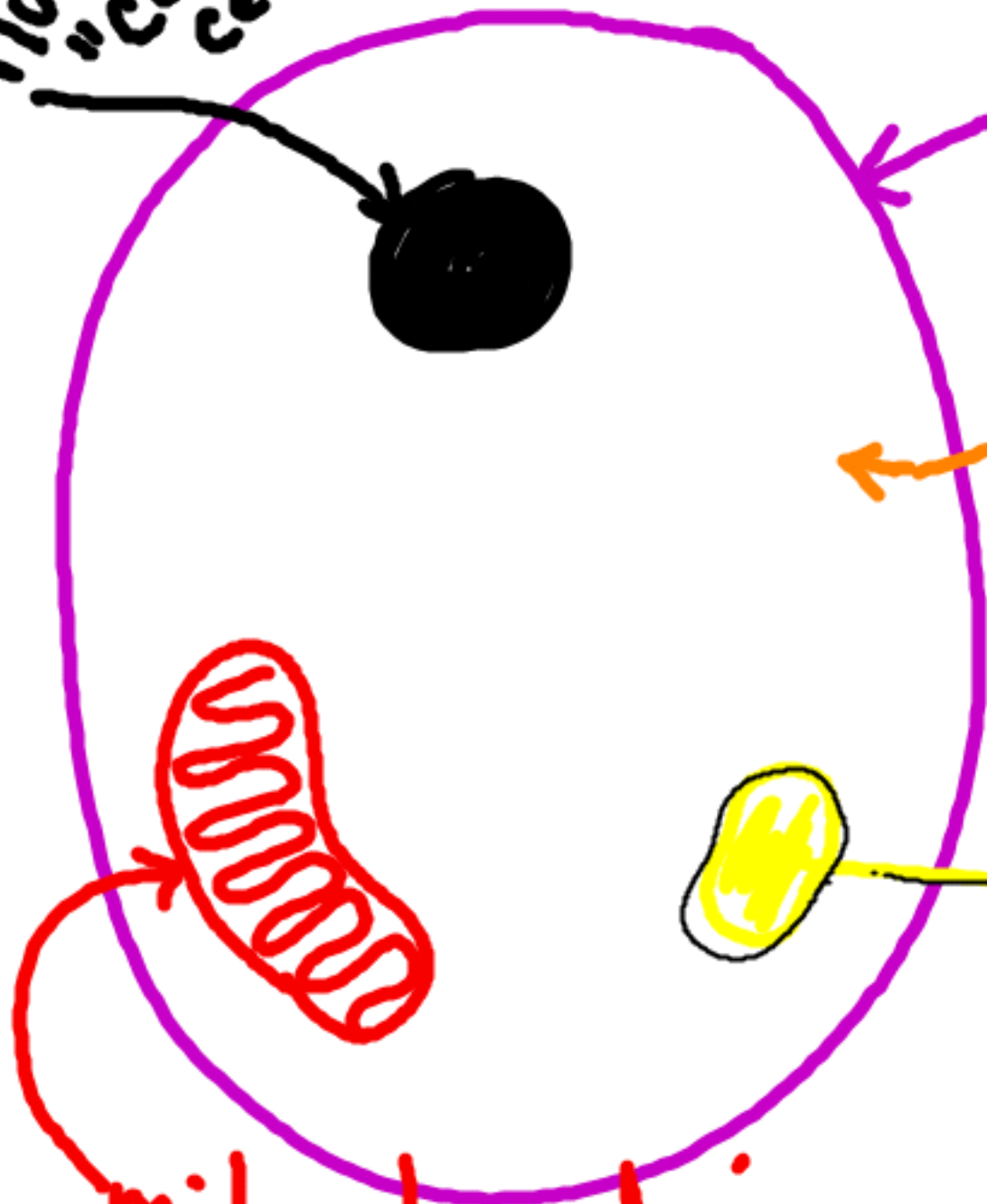
Nucleus
"command center"

Cell membrane
"gatekeeper"

Cytoplasm
Cell liquid

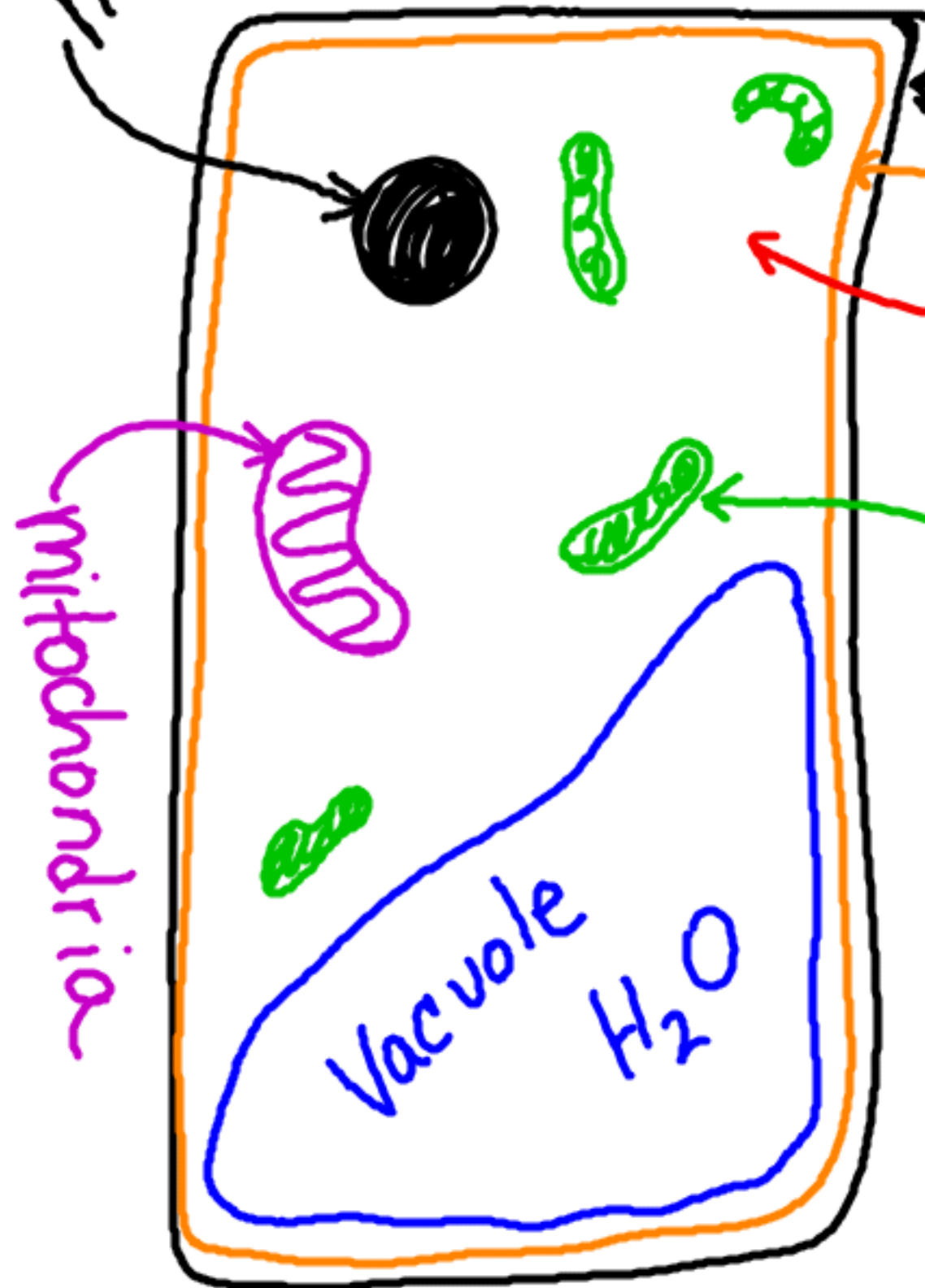
Vacuole
"Storage facility"

Mitochondria
"powerhouse"



Plant Cell

nucleus



cell wall → Structure

cell membrane

cytoplasm

chloroplast: green
b/c they have
chlorophyll

mitochondrion

* How are cells organized? *

(in animals)

