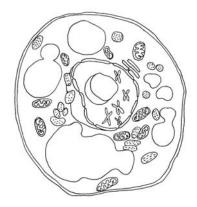
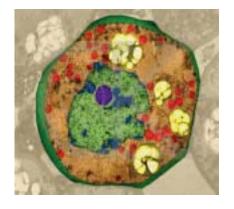


Things to Remember!

- 1. Cells are basic units of all living things including human beings.
- 2. Cells are not exactly same in their shape and structure, but remarkably similar.
- 3. New cells are produced from existing cells.

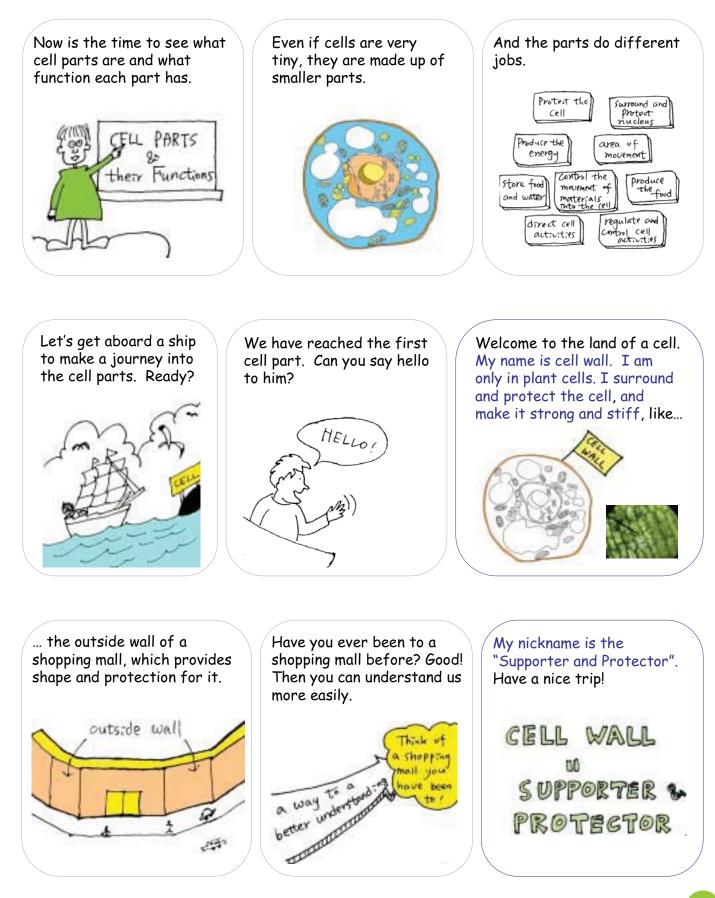


Line drawing of a cell



Real image of a cell

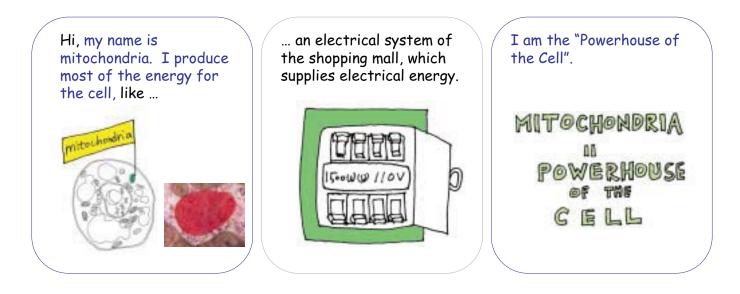










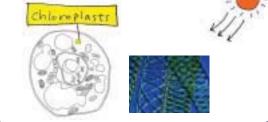


Are you understanding the parts well? You may more easily understand them when you are trying to match the cell parts with what you already know, like the shopping mall you have been to.



Hi! I am chloroplasts. I am only in plant cells, like the cell wall. I contain chlorophyll, which captures energy from sunlight and uses it to produce food for the cell.

MALL



I am like a pizza shop in the mall that makes food.



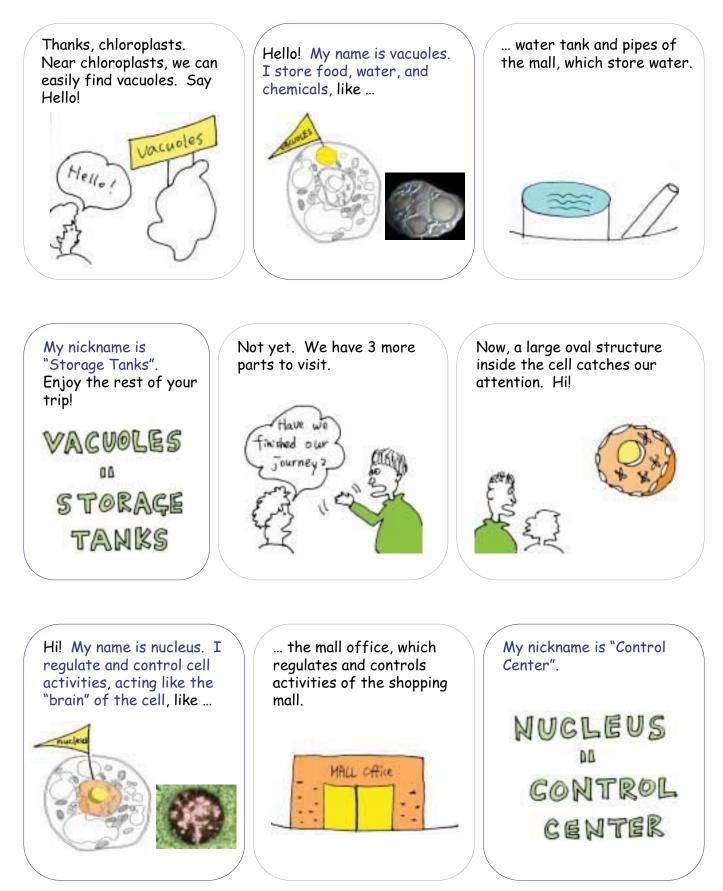
is "Food Producers". CHLOROPLASTS M FOOD PRODUCERS

So my nickname

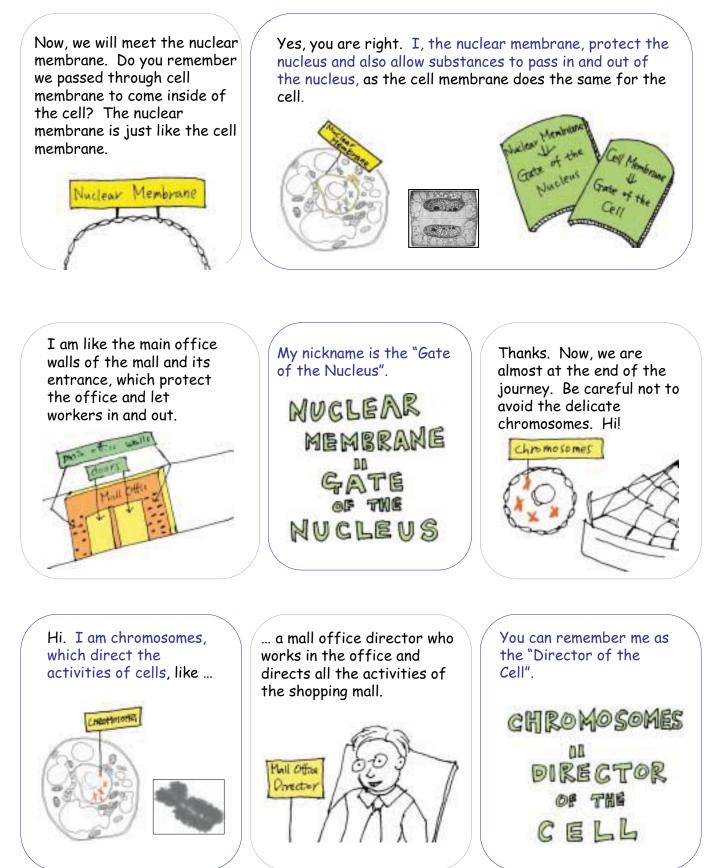
Ok. Let's start again. In

the cytoplasm, we can also

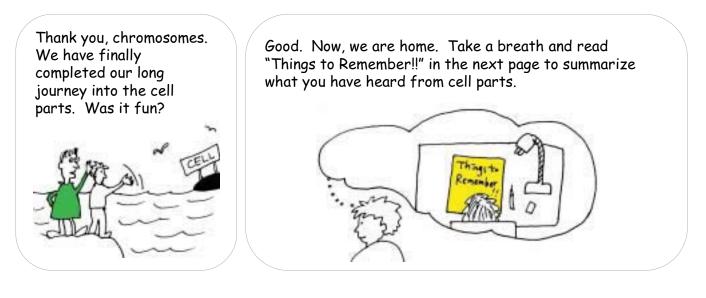


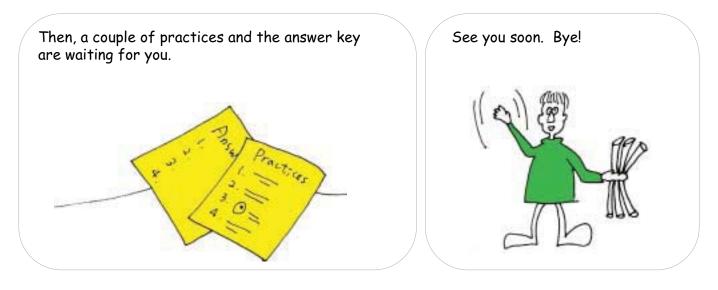








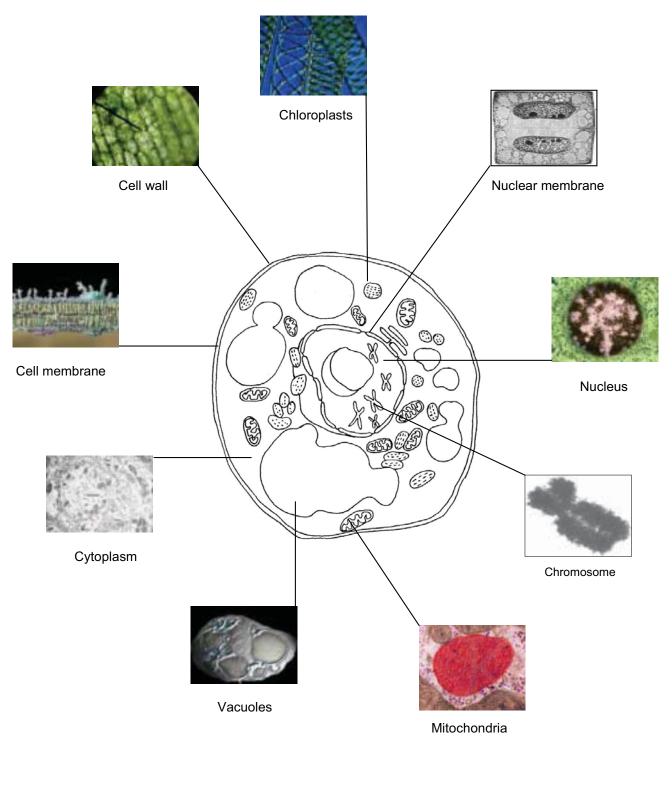




Things to Remember!!

	Cell Parts	Main Functions	Nick Name
1	Cell wall	Surround and protect the cellMake the cell stiff and strong	Supporter and protector
2	Cell membrane	 Hold and protect the cell Control the movement of materials into and out of the cell 	Gate of the cell
3	Cytoplasm	 A watery, gel-like material in which cell parts move 	Area of movement
4	Mitochondria	 Produce and supply most of the energy for the cell 	Powerhouse of the cell
5	Chloroplasts	 Contain chlorophyll Capture the energy of sunlight and use it to produce food for the cell 	Food producers for the cell
6	Vacuoles	 Store food, water, and chemicals 	Storage tanks
7	Nucleus	Act as the 'brain' of the cellRegulate and control all cell activities	Control center
8	Nuclear membrane	 Surround and protect the nucleus Control the movement of materials into and out of the nucleus Exist in the nucleus 	Gate of the nucleus
9	Chromosomes	Direct cell activitiesExist in the nucleus	Director of the cell





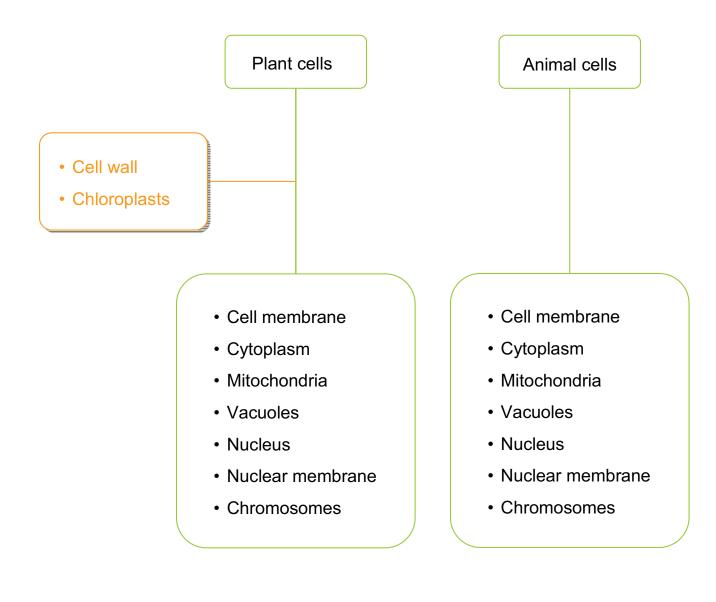
Line drawings and real images of cells

Are plant and animal cells the same or different?

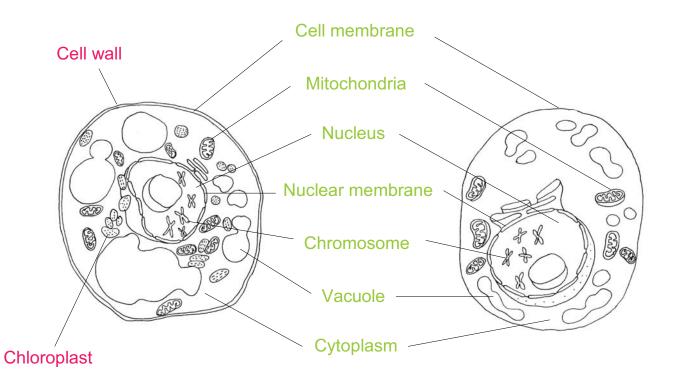


Things to Remember!!!

- 1. Both plant cells and animal cells have 7 cell parts: cell membrane, cytoplasm, mitochondria, vacuoles, nucleus, nuclear membrane, and chromosomes.
- 2. In addition to the 7 parts, plant cells have 2 more parts: cell wall and chloroplasts.







Plant cell

Animal cell



Are plant and animal cells the same or different?





Are plant and animal cells the same or different?



