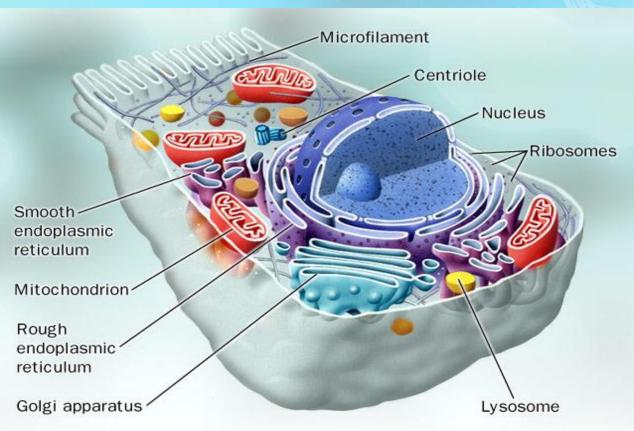


Cells or Cells?

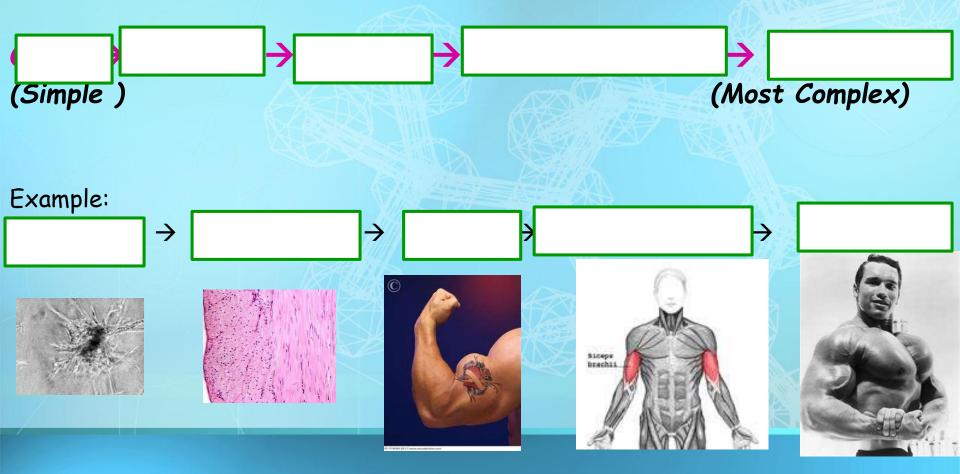


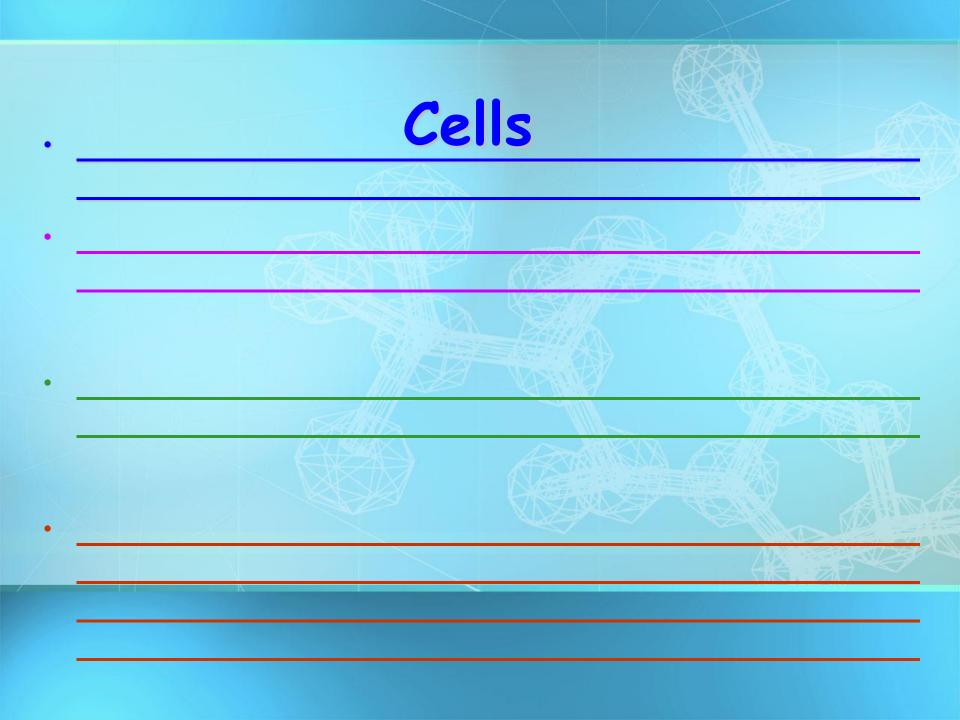


MODERN CELL THEORY

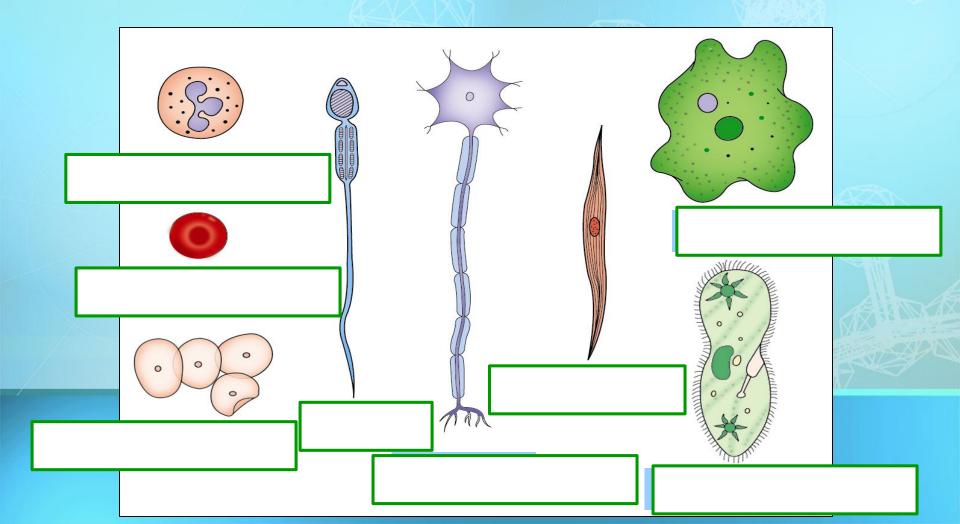
1.		
2.		
_		

Levels of Organization for Multicellular Organism:



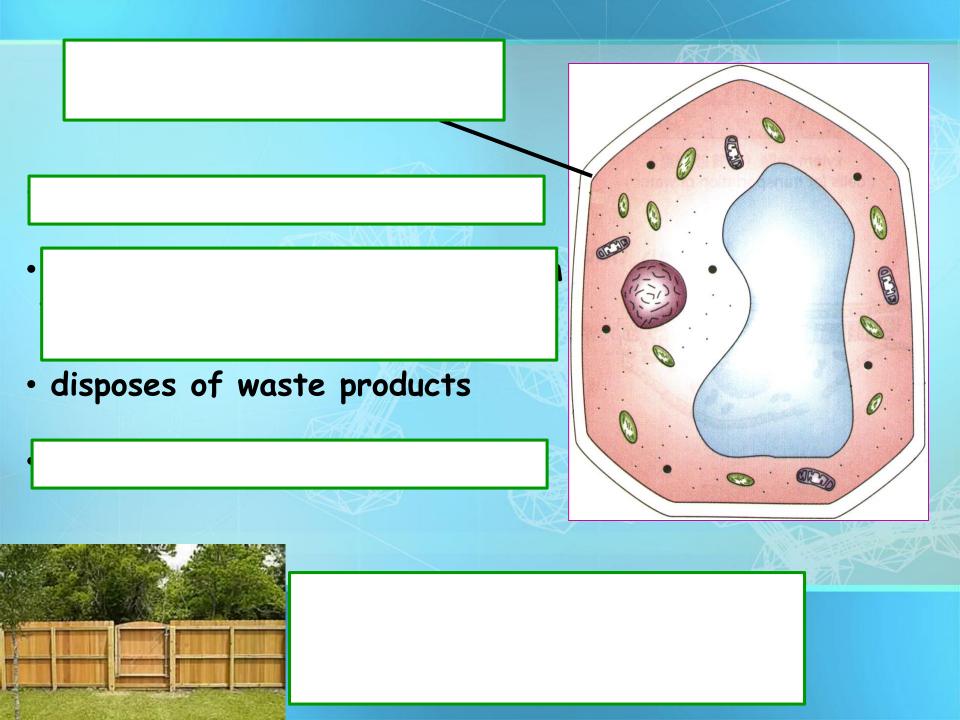


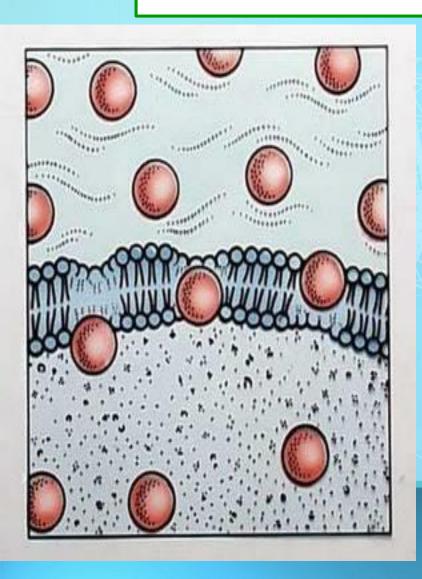
Different kinds of animal cells



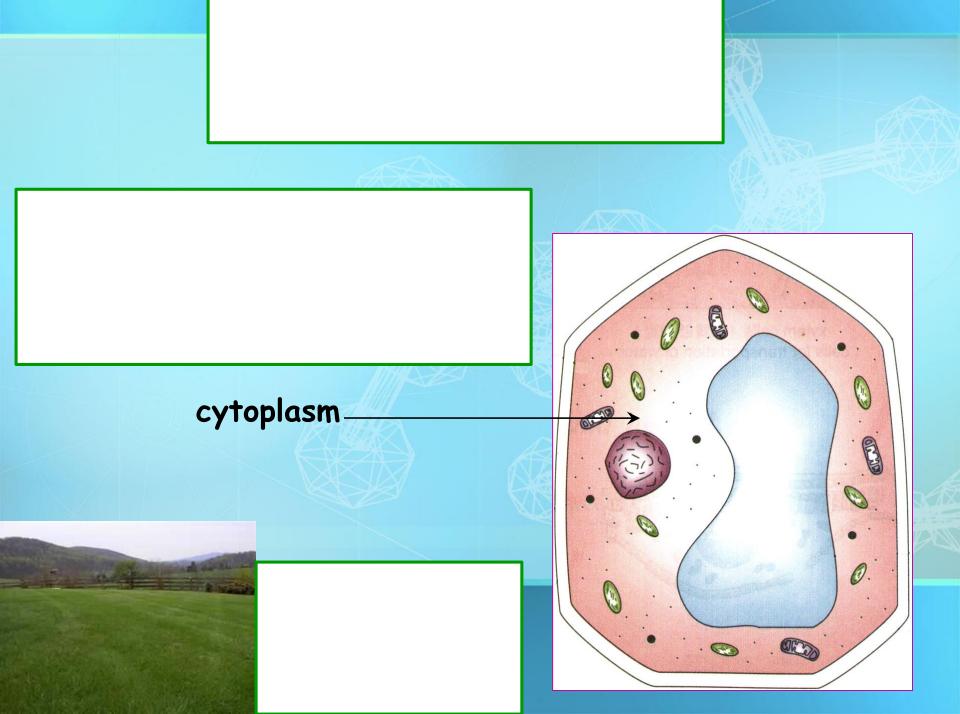
Basic Structure of a Cell







•The cell membrane is SEMI-PERMEABLE.



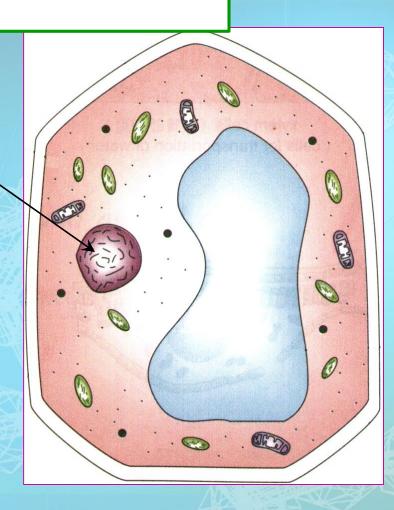
The organelles are suspended in the cytoplasm.



Nucleus

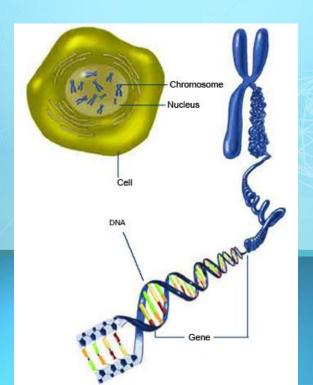
- · Contains the DNA and Chromosomes
- Enclosed by a nuclear membrane (like the cell membrane)

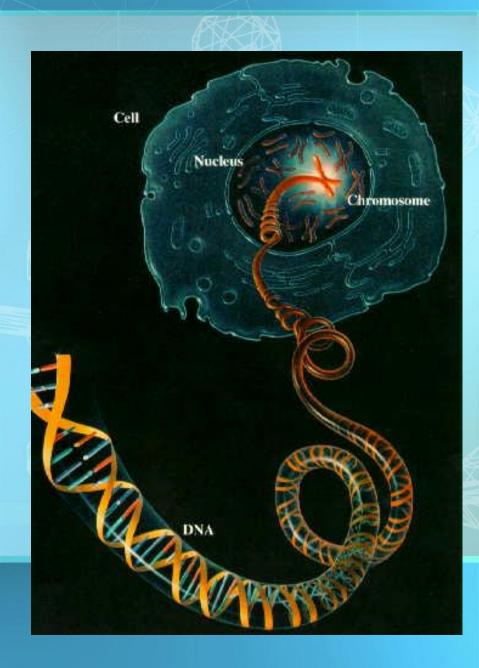


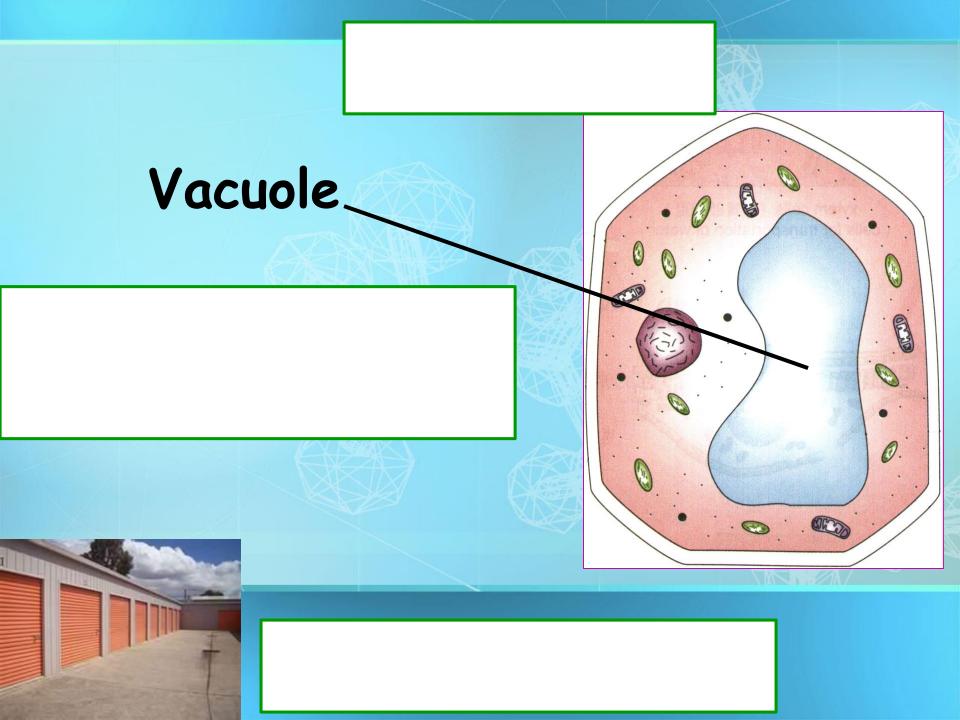


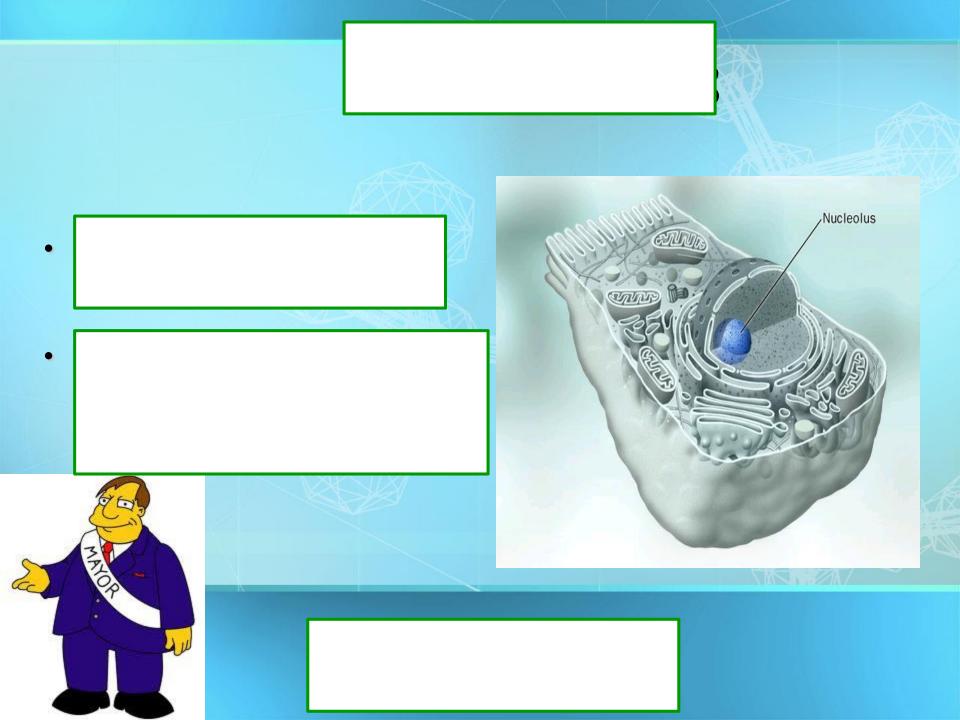
(deoxyribonucleic acid).

Gene < DNA < Chromosome < Nucleus







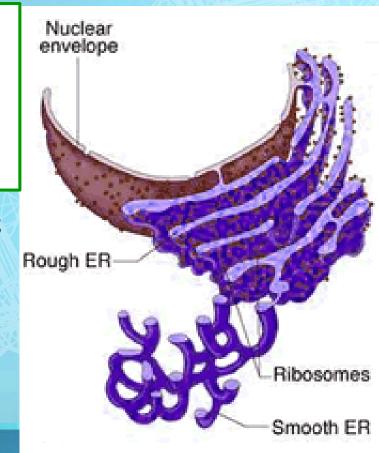


ER does not have ribosomes

ER has ribosomes on its

surface

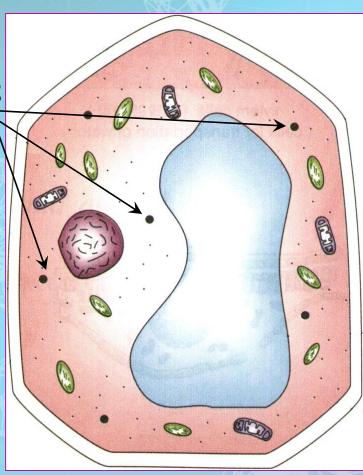




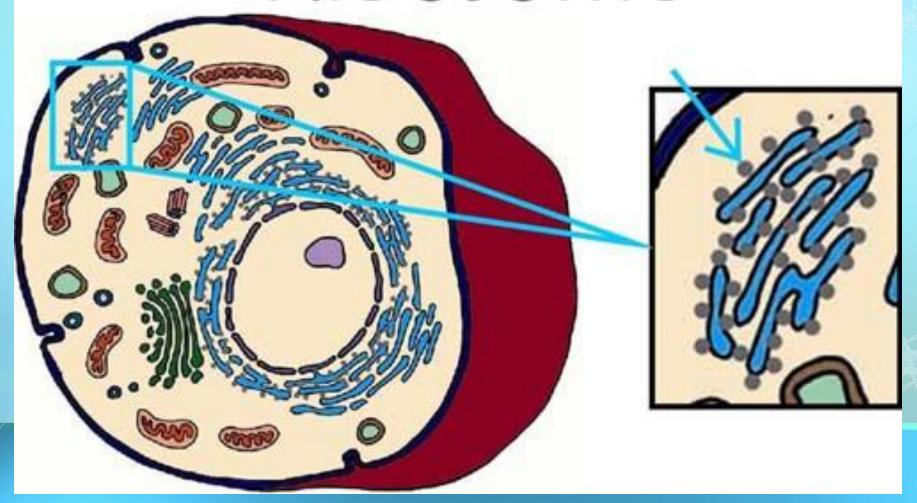
Ribosomes

- Can be floating in the cytoplasm or
- attached to the endoplasmic reticulum

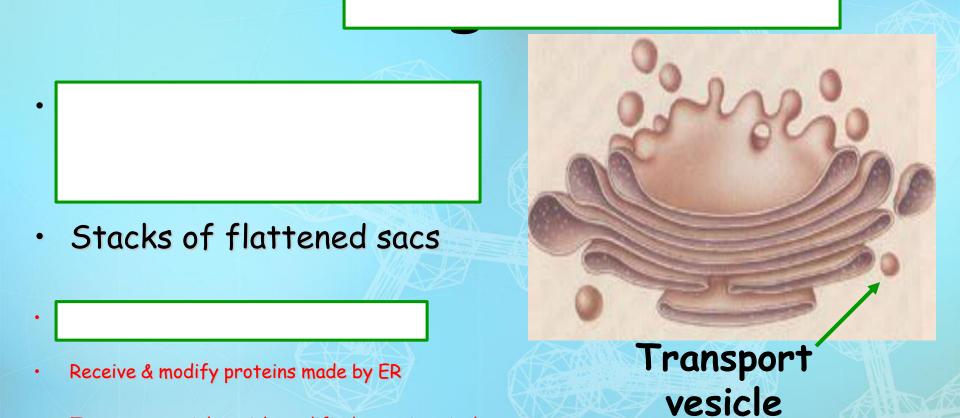




Ribosome



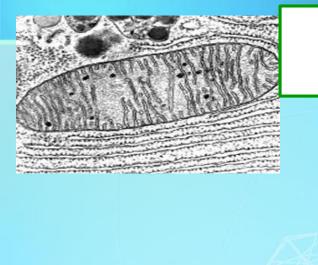




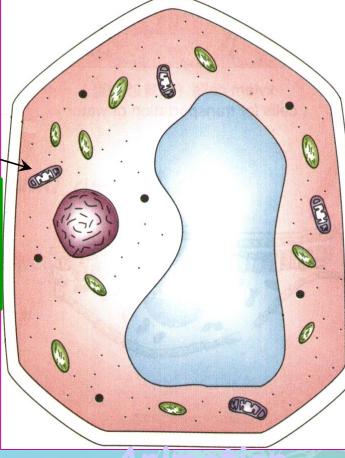
Transport vesicles with modified proteins pinch

off the ends





Mitochondria -



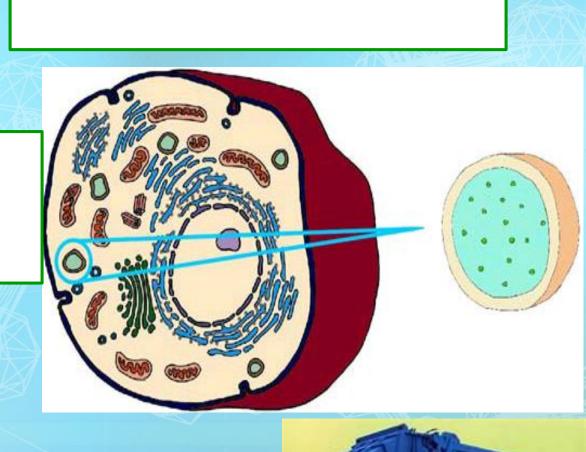
Animation



Contain digestive enzymes

Programmed for cell death (releases an enzymes to break down & recycle cell parts)

· Lysosome animation



Plant Cell Organelles







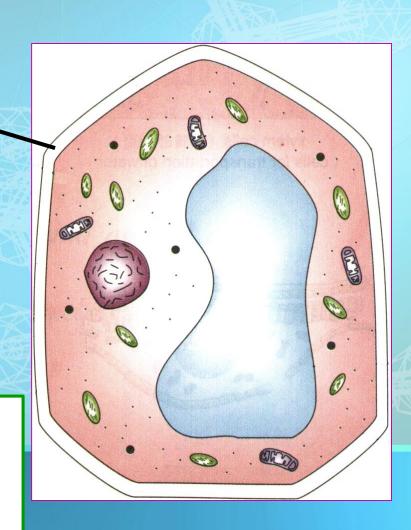




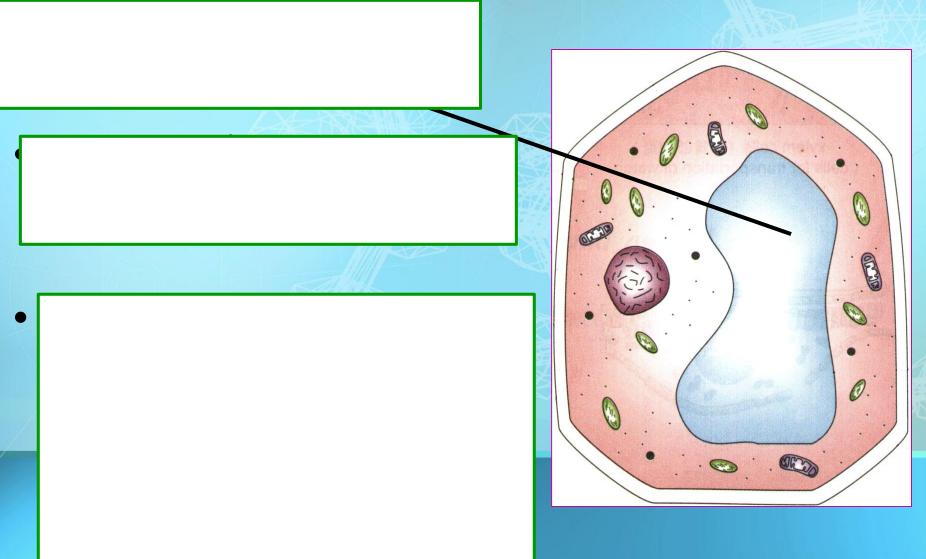
· Traps sunlight to make sugars (food)

Plant Cells

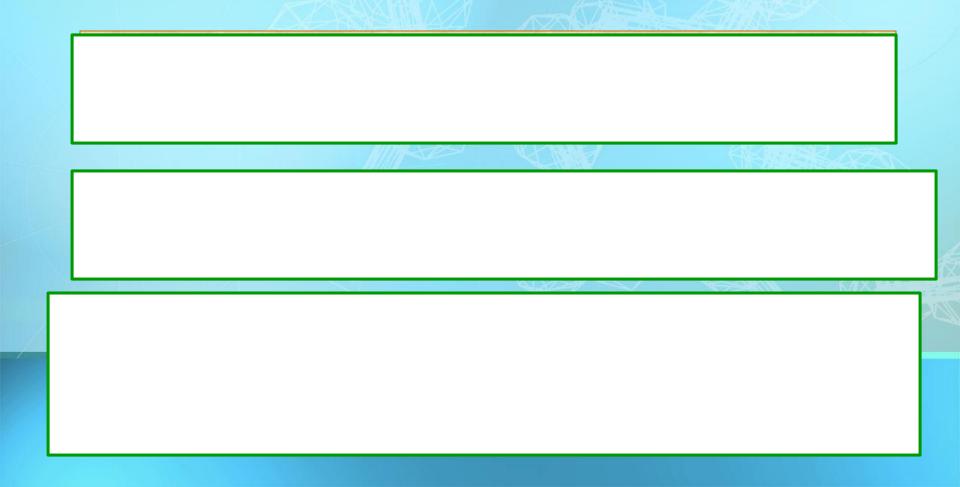
- Dead layer
- Large empty spaces present between cellulose fibers
- · Freely permeable



Plant Cells



Similarities between plant cells and animal cells



Differences between plant cells and animal cells

Animal cells Plant cells