



Cells are the basic units of structure and function in living things.



Cells and structure

All living things are made of cells

Cells and function

Cells are involved with

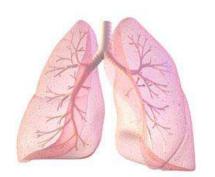
- Obtaining oxygen
- Getting rid of wastes
- Obtaining food
- Growing

Size of Cells

Viewable with a microscope

Table Talk: Without looking at your notes, take turns discussing with your tablemates, the 4 functions of cells.

(Use these pictures to help remind you.)







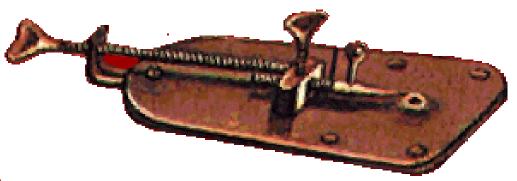


First observation of cells



The invention of the microscope made it possible for people to learn about cells

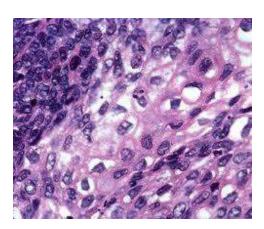
- Robert Hooke (1660 compound microscope)
- Anton van Leeuwenhoek(1674 simple microscope)

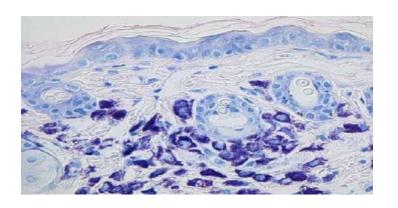


Cell Theory



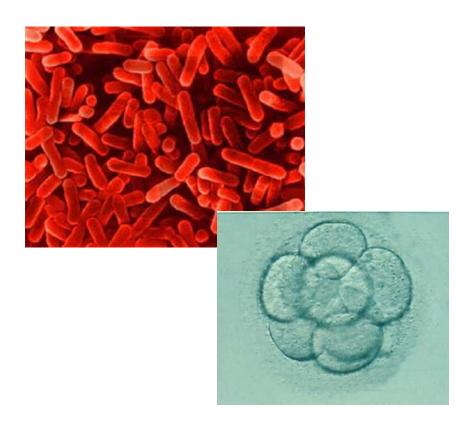
- All living things are made of cells
- Cells are the basic units of structure and function in living things
- All cells are produced from other cells





Unicellular organisms

Multicellular organisms

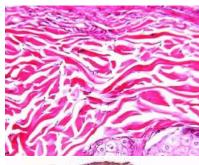


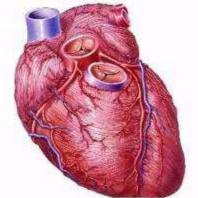
Single celled organisms, like bacteria

- Cells are organized into:
 - tissues a group of similar cells that work together to perform a particular function.
 - organs like the brain made up of different kinds of tissues that work together
 - organ systems a group of organs that work together to perform a major function, like digestion
 - Organism a living plant or animal

Table Talk: In order of increasing size, can you name the levels of organization in living things?









ORGAN

