

# OBSERVING CELLS

# Objective

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- To observe the organelles of plant and animal cells.

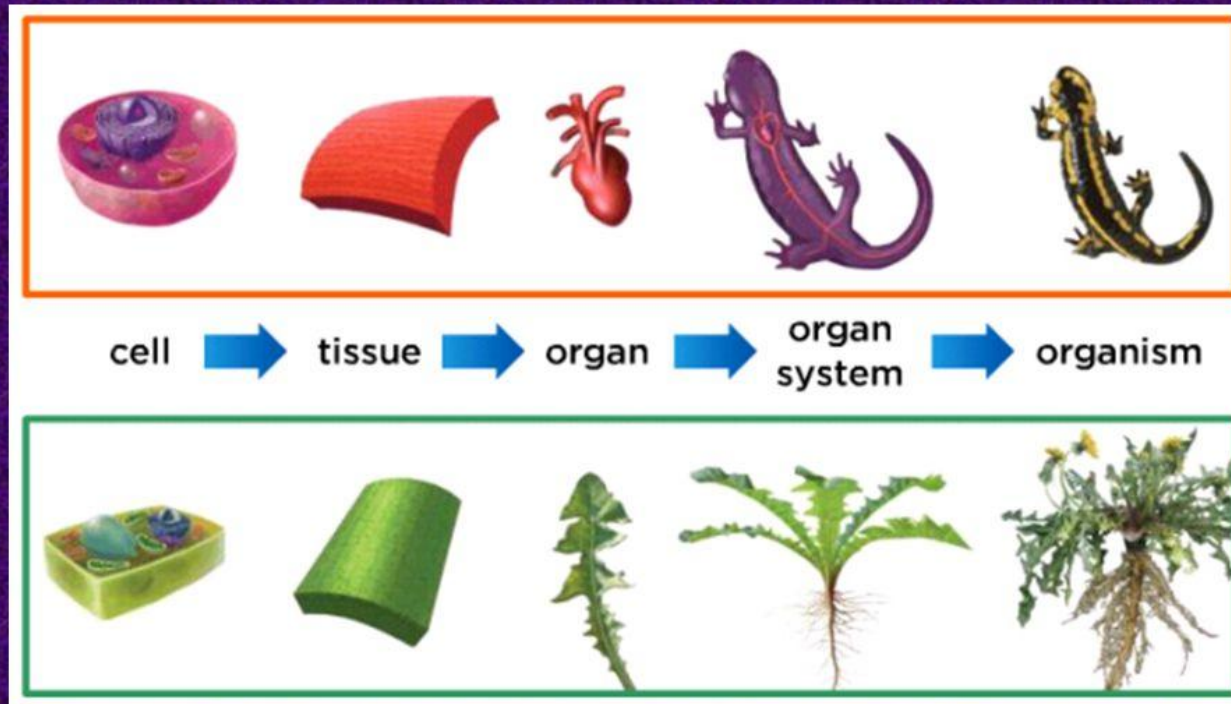
# Organization in Living Things

1. All living things are made up of tiny units called **CELLS**
2. There are many kinds of cells:
  1. **Nerve** – are long and thin
  2. **Plant** – are square or rectangular
  3. **Blood** – are like donuts
3. Cells differ in the jobs they do. The shape of the cells **is related to its job**

# Cell to Organism

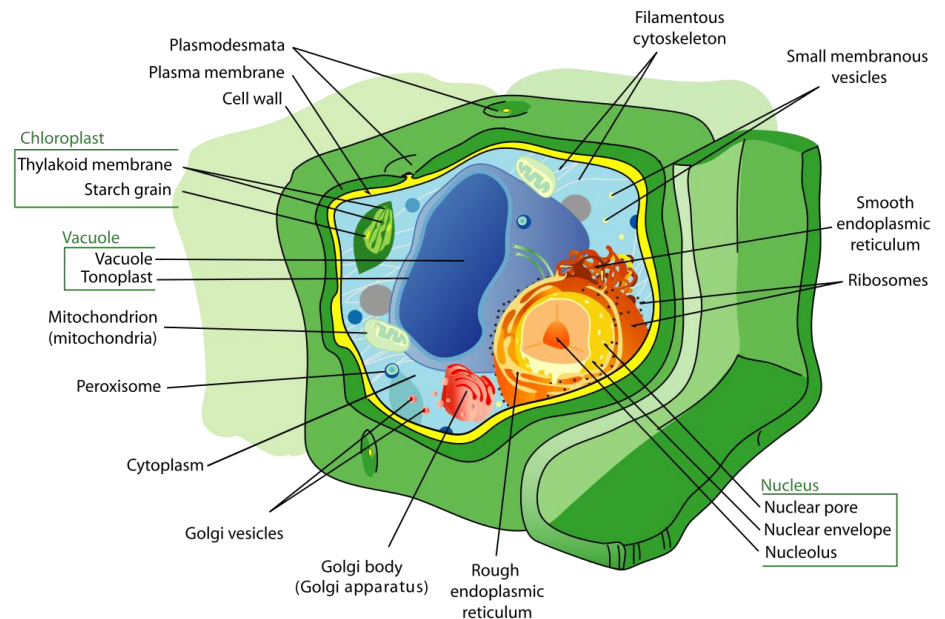
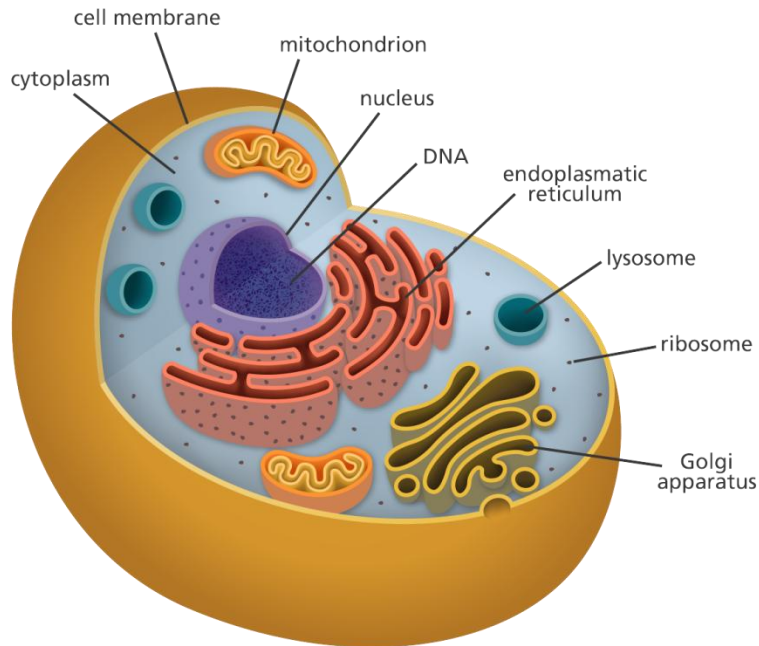
## Cells to Organisms: Drawings

(pg. 40)



# A. CELLS

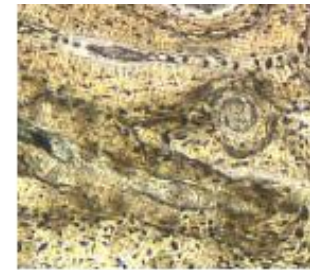
- smallest unit of all living things
- Examples: Blood and Nerve Cells



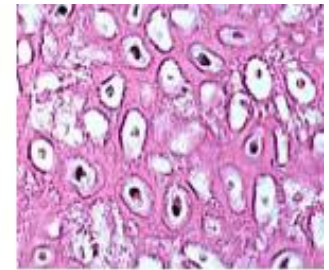
## B. TISSUES

- groups of similar cells working together.
- Examples: muscle tissue or skin tissue

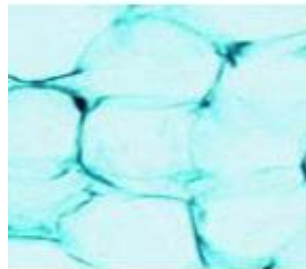
Histological images  
of various tissues  
in the body



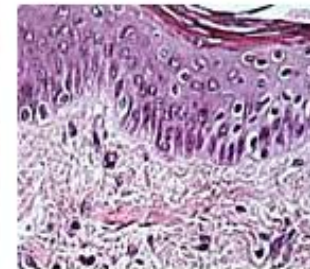
Bone



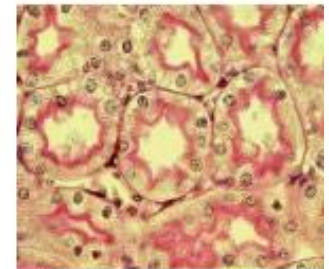
Cartilage



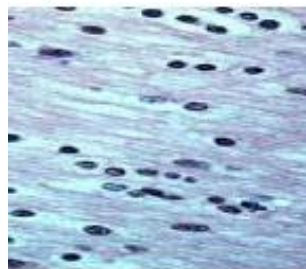
Adipose Tissue



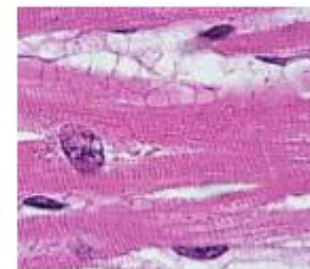
Skin



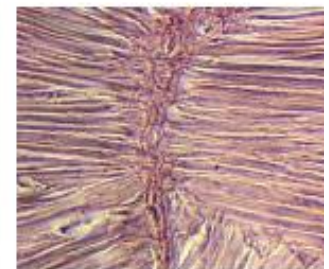
Intestinal Villi



Neural Tissue



Cardiac Muscle

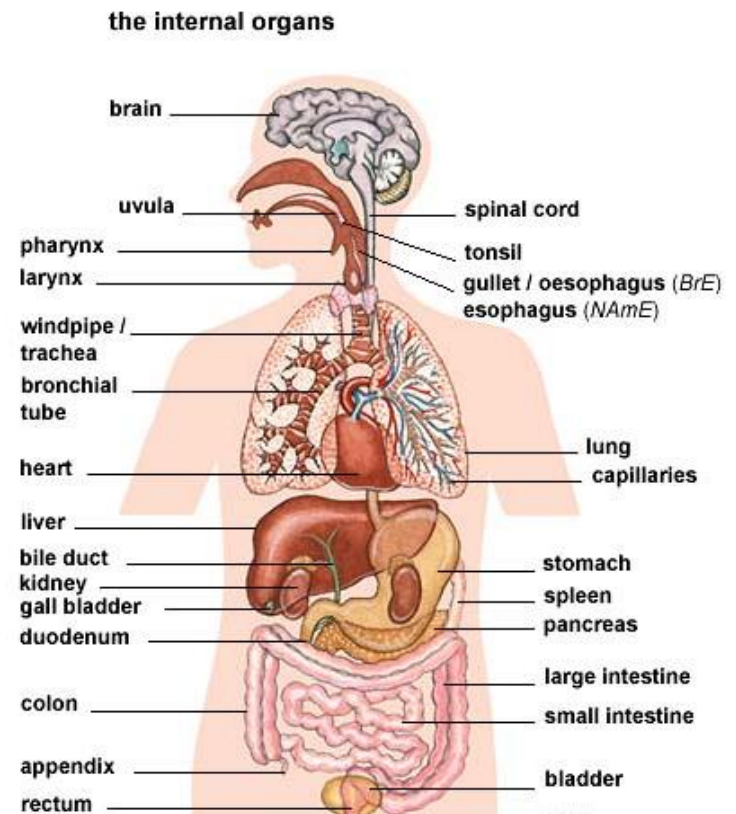


Skeletal Muscle



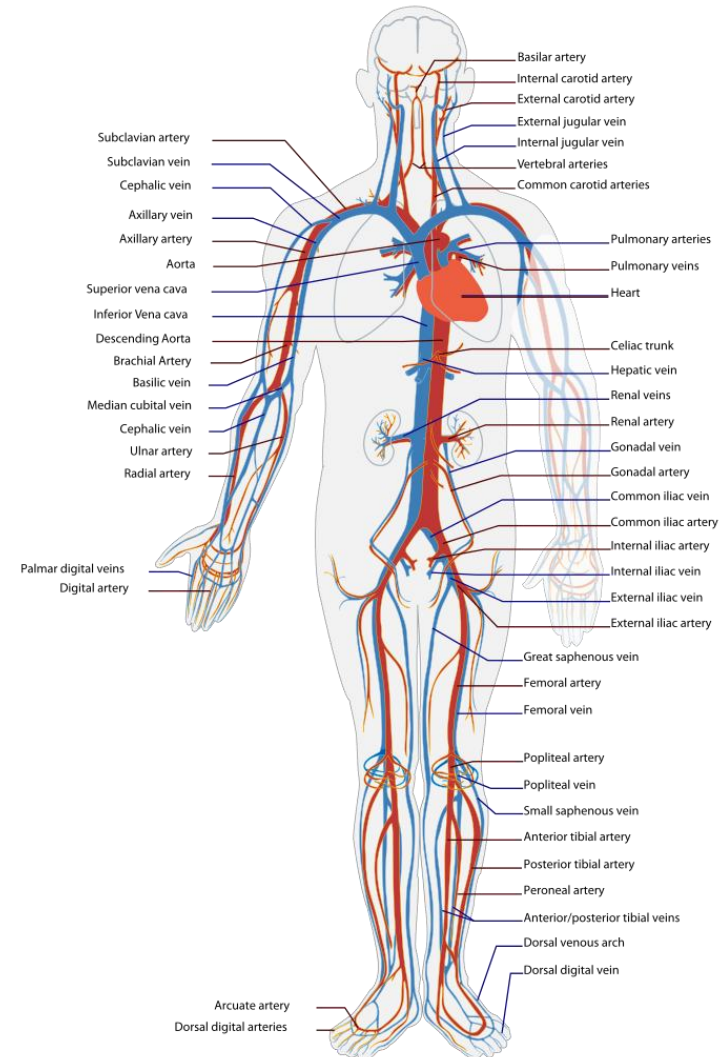
# C. ORGANS

- different tissues  
working together
- Examples: Heart  
or lungs



# D. ORGAN SYSTEM

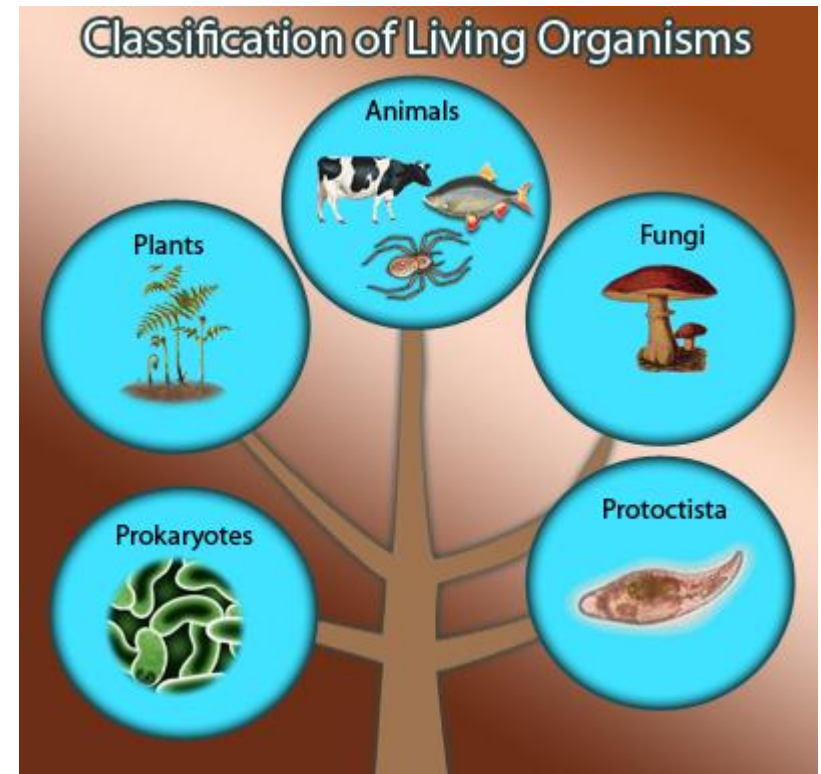
- many organs  
working together
- Examples:  
circulatory and  
respiratory





# E. ORGANISM

- living things that can carry out life activities
- Examples: dog, amoeba, you!



# CELLS

- Cell parts: also called organelles
- Epithelial: inner skin cells which line cavities.
- Stain: used to help see cells parts better.
- Animal Cells: usually rounder, lack chloroplasts and a cell wall.
- Plant Cells: usually rectangular, have chloroplasts and cell walls.