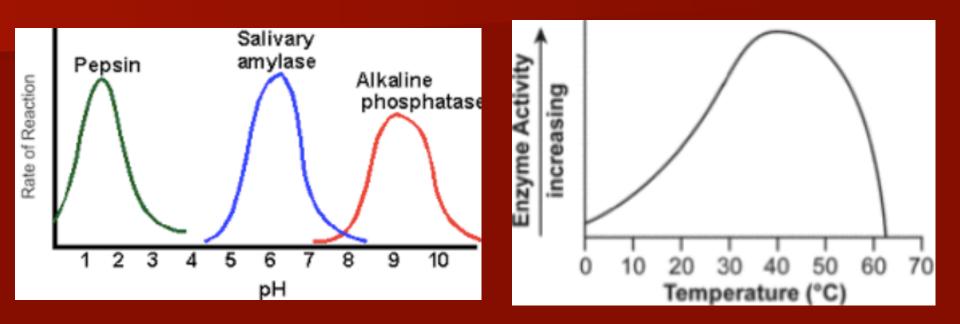
# Warm Up (9/6-9/7)



#### Graph 1

#### Graph 2

Analyze the graphs above. Write at least 2 sentences for EACH graph (at least 4 sentences total) explaining your analysis.

### Agenda

Warm up
Grade HW
Ch 6 Quizlet Live
7.1 Notes: The Discovery of Cells
Lab: Observing plant and animal cells

Homework: Read 7.1 and complete 7.1 Section Assessment (pg 174 #1-5) DUE MON/TUES



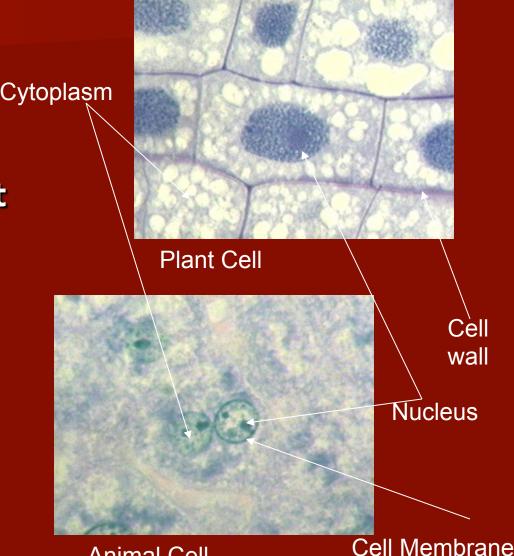
#### **The Discovery of Cells**

## The Cell



How many cells can fit into the letter "O"?

#### 50,000 cells !



Animal Cell

### History of the Microscope

- Before microscopes, diseases were thought to be caused by curses and spirits
- Anton van Leeuwenhoek (1600's) first simple microscope
- Robert Hooke (1665) cork cells with crude compound microscope
   1800' s compound light microscope – greater magnification (x 1500)



### **Electron Microscopes**

- Electrons rather than light passed over or through an object
- Specimen must be in a vacuum because electrons can collide with air particles
- Can view objects as small as molecules (x 500,000)



Pollen



Stem Cell





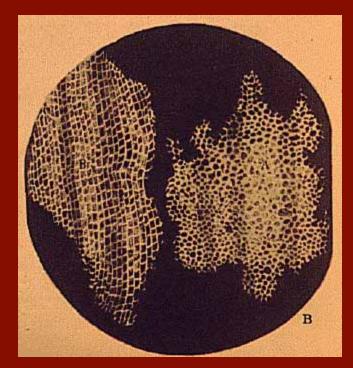
### The Cell Theory

- All organisms are composed of one or more cells
   Cell is basic unit of
- organization of organisms
- All cells come from preexisting cells

https://youtu.be/40pBylwH9DU

Hooke's cork cell

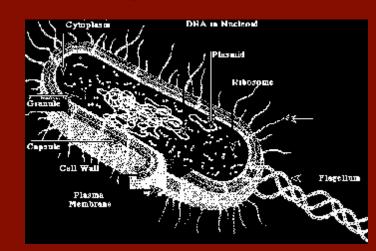




#### **Two Cell Types**

#### Prokaryote

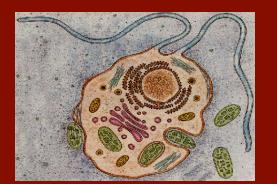
- Single-celled organisms
- Cells lack internal structures surrounded by membranes
- No true nucleus DNA floating around
   Example - Bacteria



#### Eukaryote

- Has Organelles structures with specific functions and membranes isolating it from rest of cell
- Nucleus largest organelle contains DNA and is boss of cell
   Example – Plants and

Animals

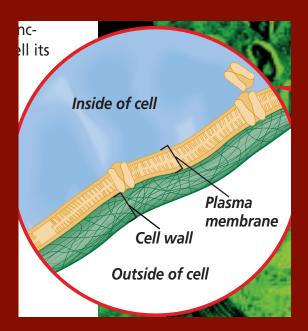




A few or know

Plasma membrane nextble boundary between the cell and its environment

- Cell wall- rigid structure located outside of the plasma membrane that provides additional support and protection. \*\*Found in plant cells, fungi and bacteria
- Cytoplasm- clear, gelatinous fluid inside a cell



### **Comprehension Check**

- What are the three components of the cell theory?
- What is the difference between a prokaryote and a eukaryote?
- Are bacteria prokaryotes or eukaryotes?
- Are plants and animals prokaryotes or eukaryotes?