

## Bio 28.1

Goals: compare and contrast bacteria, archea and protists, determine how scientific views can evolve based on increasing evidence.

### Single Celled Organisms

#### Bellwork:

Answer these questions as if you were going to school in the year 1990. You have no knowledge of the future.

- 1) Who is Donald Trump?
  
- 2) What is your favorite movie or song?
  
- 3) How many planets are there in our solar system?
  
- 4) (Challenge) What kingdoms of life can you name?
  
- 5) Why do some science references from decades ago need to be updated?

Notes:

#### **Old Kingdom System:**

Limitations:

#### **New Domain System:**

How did it fix those problems?

Crash Course

Archea

Bacteria

Protists

Examples:

How are these similar to one another? How are they different?

Viruses:

Life?

Not Life?

## Bio 28.2

Goals: Review single celled organisms, explore important roles of algae and diatoms in our ecosystems

### Bellwork

- 1) Take six breaths. From those six breaths of oxygen, how many do you think came from the following places?
  - a. The Amazon Rainforest
  - b. The local cacti and other plants
  - c. The oceans
  - d. Other
- 2) Why do you think the atmosphere always stays at approximately 20% oxygen?

Discussion: algae and diatoms, why they are so important to the planet

Reflection: Why the health of the oceans is in our best interests

## Bio 28.9

Goals: Review single celled organisms, observe samples under a microscope

Plan:

Kahoot review: bacteria and archea

Mini-Lab: observe pond water and prepared slides. Compare and contrast the organisms found in each

Reflection: Sketch the organisms you found and identify relevant cell structures (review of cell structure)