Protists

What are protists?
- Eukaryotic organisms found in water
- NOT plants; NOT animals; NOT fungi
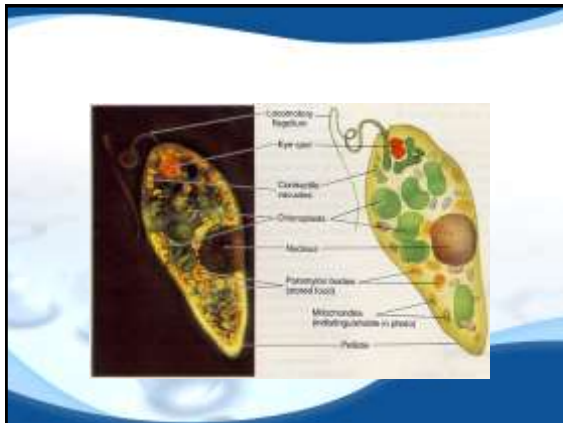
Let's look at Euglena…

Now, Amoeba

Paramecium

Spirogyra
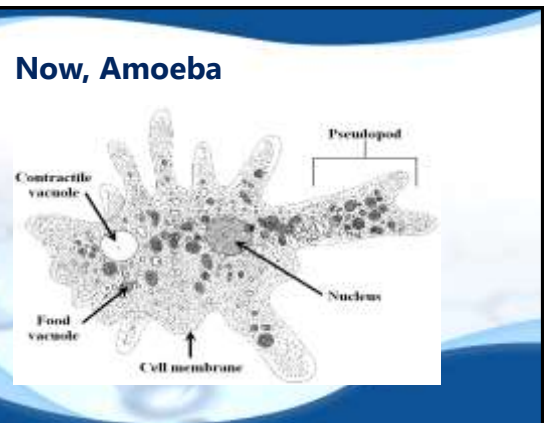
Adaptations

- Contractile vacuole
  - stores and pumps excess water out so that the protist doesn't BURST!
  - Why?
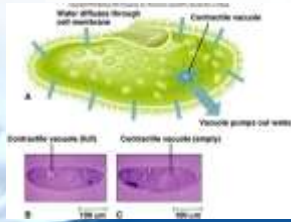
Adaptations

- Eyespot
  - spot of light-sensing pigment
  - helps detect light, darkness, movement

  - Used for taxis = responsive movement toward or away from external stimuli

Adaptations

- Pseudopodia
  - "pseudo"= fake; "pod"= feet
  - Extension of cell membrane into environment to "capture" food and liquids by endocytosis.
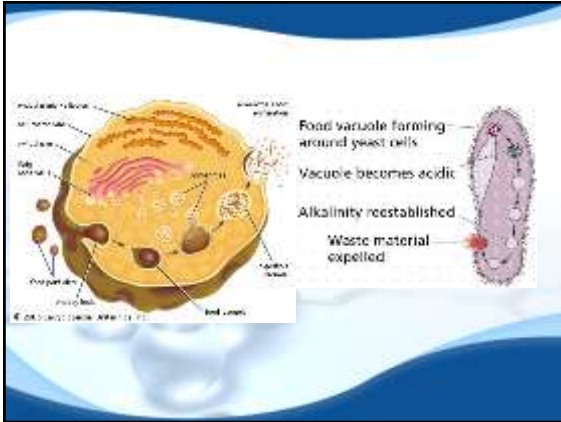 - Helps organism move through environment.

Amoeba

Adaptations

- Food vacuole
  - "Bubble" formed when membrane is used to "pinch in" food.
  - combines with lysosome for digestion

Adaptations

- Cytoplasmic Streaming
  - Because most protists lack major organs, it uses it's body movement to "stir" the cytoplasm around.

Cytoplasmic streaming and pseudopodia

- amoeba feeding

Adaptations

- Organelles of motility/mobility
  - Cilia ~ circulates water (and its contents) over the surface of the cell
  - Flagella ~ moves organism