Experiment 6: How do they move? Date: _____

Objective: _____

_____

Hypothesis: _____

_____

Materials:

microscope
microscope slides (Carolina Biological CE-60-3730E)
3 eye droppers
fresh pond water or water mixed with soil
Protozoa study kit (Carolina Biologicals, catalog # CE-13-1000)
Protoslo (Carolina Biologicals, catalog # CE-88-5141) [optional]

Experiment:

1. Familiarize yourself with your microscope before beginning this lesson. Read the instruction manual for your microscope, if it is available, and try to look at any prepared samples that may have come with your microscope. If you already know how to operate a microscope, skip this step.

2. Take one of the protozoa samples and place a small droplet onto a glass slide that has been correctly positioned in the microscope.

3. Observe the movement of protozoa. If the organisms move too quickly, apply a droplet of Protoslo to the glass slide.

4. Patiently observe the movement of the protozoa. Note the type of protozoa in the Results section. Try to describe how the protozoa moves. Write down as many observations as you can.

5. Repeat step 4 with the other two protozoan types.

6. Now take a droplet of fresh pond water and place it in the microscope. Try to determine the type of protozoa you are observing based on how the organism moves. Write your results in the Results section.

Results:

Name _____

Name _____

Name _____

Draw what you observe in the pond water

Conclusions:

Review

Define the following terms:

protist _____

microscope _____

cilia _____

flagellum _____

pseudopod _____

Draw a paramecium

Draw a *Euglena*

Draw an amoeba

How do *Euglena* and paramecia move? _____

How does an amoeba move? _____