

# The Protista Kingdom

**Purpose:** To examine microscopic members of the Protista kingdom and to attempt to identify them.

## **Procedure:**

### **Part One: Protozoan Culture**

Prepare a slide using the provided protozoan culture and examine under a microscope. Sample the culture near the surface and use medium power.

Complete the Protist culture chart using <sup>3</sup> different types of protists from the culture. Note the following:

- Name of Specimen
- Diagram of Specimen
- Characteristics; Animal or Plant – like
- Type of movement
- Color of Specimen
- Other Characteristics

### **Part Two: Prepared Slides**

Select any <sup>2</sup> of the prepared protist slides to examine under the microscope.

Complete the prepared Protist slide chart; making note of the following.

- Specimen Name
- Diagram of Specimen
- Characteristics; Animal or Plant – like
- Type of movement
- Color of Specimen
- Type of Nutrition
- Other Characteristics

## **Analysis:**

1. On what basis are the animal-like protists subdivided into different phyla?
2. What characteristics would enable you to classify a protist as plant-like?
3. At one time the protists were classified as the simplest members of the plant and animal kingdoms. Explain why taxonomists now place these organisms in a separate kingdom.
4. What would happen in a pond if water pollution killed the algae?

## **Conclusion:**