

Lesson Twelve Microorganisms—Club Fungi

Mushrooms, Rusts, and Smuts

- Standard 5:** Students will understand that microorganisms range from simple to complex, are found almost everywhere, and are both helpful and harmful.
- Objective 1:** Observe and summarize information about microorganisms.
- Indicator a:** Examine and illustrate size, shape, and structure of organisms found in an environment such as pond water.
- Indicator b:** Compare characteristics common in observed organisms (e.g. color, movement, appendages, shape and infer their function (e.g., green color found in organisms that are producers, appendage help movement).
- Indicator c:** Research and report on a microorganism's requirements (i.e. food, water, air, waste disposal, temperature of environment, reproduction.)
- Objective 2:** Demonstrate the skills needed to plan and conduct an experiment to determine a microorganism's requirements in a specific environment.
- Indicator a:** Formulate a question about microorganisms.
- Indicator b:** Develop a hypothesis for a questions about microorganism based on observations and prior knowledge.
- Indicator c:** Plan and carry out an investigation on microorganism.
- Indicator d:** Display results in an appropriate format (e.g., graphs, tables, diagrams).
- Indicator e:** Prepare a written summary or conclusion to describe the result in terms of the hypothesis for the investigation on microorganism.

Procedure

1. Read about Club Fungi under Fungi from the *Properties and Classification of Microorganisms* document.
2. Discuss Club Fungi as you read about it.
3. Have them look at the pictures of Club Fungi on the Microorganism Information pages and read other information about Club Fungi in the Microorganism Information pages.
4. Have them fill out as much as they can on the *Comparing Microorganisms* sheet. You can do this as you go, or you can do it afterwards.
5. Do the Activity, "Spore Drop", *Microorganism Multiplication* packet, Activity 2.
6. Have the students answer the questions on the right side of the page. Have a discussion afterwards.