

Observing Single Celled Organisms

Summary

Student will observe and describe cellular structures and functions of pond microorganisms. They will identify cell parts and determine how the organisms carry out the functions of life such as extracting energy from food, removing waste, and producing their own food.

Main Core Tie

SEEd - Grade 7

[Strand 7.3: STRUCTURE AND FUNCTION OF LIFE Standard 7.3.1](#)

Time Frame

1 class periods of 60 minutes each

Group Size

Small Groups

Materials

pond water mixture (pond or puddle water is best but not essential) and a handful of hay or grass. It needs to sit in a warm room for about 5 days to have maximum growth)

microscopes

coverslips

droppers or pipettes.

- [student worksheet](#)

Instructional Procedures

Prepare the pond water mixture several days in advance. Copy the student sheets if desired.

Read the introduction and procedures with students.

Allow time for students to work with the microscopes.

If you have a flex camera or video camera that fits over the top of a microscope, project a slide on the screen while students work. Allow students to bring up a good slide they make.

Remind students to complete drawings and answer questions. If they are engaged in their observations, finish on the next day.

Assessment Plan

Scoring Guide

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1. Students prepare slides and follow directions for microscope use.....4
2. Student drawings are reasonably accurate.....4
3. Questions are answered correctly.....4

Bibliography

Lesson Design by Jordan School District Teachers and Staff.

Authors

[Utah LessonPlans](#)