

Name: Jaclyn Clements

The Microscope

Defining Success	OBJECTIVE: What will your students will be able to do by the end of class? 6.1A demonstrate safe practices during field and laboratory investigations. 6.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence. 6.4A collect, analyze, and record information using tools including microscopes.	
	ASSESSMENT: How will you know concretely that all of your students have mastered the objective? Worksheets during labs. Performance assessment.	KEY POINTS: What three to five main ideas or steps will you emphasize in your lesson? 1. How to use a microscope. 2. How to prepare a slide. 3. Parts of a microscope.

Lesson Cycle	ENGAGE: Students will be shown pictures of various organisms as viewed through a microscope and be asked to guess what they think they are looking at and why. Students will share their answers with a partner, then discuss as a class.	MATERIALS Pictures of organisms as seen through a microscope, computers with internet access, PIBLS Lab: The Microscope worksheet, microscopes, prepared slides, slides, cover slides, pond water, performance test, lab journals
	EXPLORE: In the computer lab, students will individually review PIBLS's General Biology Lab 1 about the Microscope. While going through the lab, students will fill in answers on their worksheet.	
	EXPLAIN: As a class, we will review proper lab safety rules and the procedures for using a microscope. Students will work in pairs to correctly use their microscope to look at prepared slides of various plants and animals. Students will record their observations in their lab journal.	
	ELABORATE: Students will prepare their own slides of pond water and use the microscopes to locate and identify living organisms in the water. Students will record their observations in their lab journals.	
	EVALUATE: Performance test on students' ability to use a microscope.	

Modifications: Peer tutoring. Oral directions. Reduced pencil/paper tasks.
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