

Middle School Investigations With the SmartMicroScope By SmartSchool Systems

Scope and Sequence - NGSS

Lab Activity	Topic	Main NGSS
1. Preparing Stained Microscope Slides	Microscope Skills: Preparing and staining slides	MS-PS1-1
2. Look Inside a Drop of Water	Classification	MS-LS2-4
3. What Do Martians Look Like?	Biogeochemical cycles	MS-LS1-5
4. Can a Virus Sit on a Bacterium?	Measuring with a Microscope	
5. What's the Difference Between a Hypothesis and a Theory?	Response to Environmental Stimuli	
6. Start Your Own DNA Collection	Extracting DNA	MS-LS1-1; MS-LS1-2
7. I Will Survive!	Population growth	MS-LS4-4
8. Chemical and Physical Changes	Physical and Chemical Changes	MS-PS1-2
9. How Important is pH?	Effect of pH on Living Organisms	MS-LS1-5
10. How Do You Know if Bacteria are Breathing?	Measuring pH Changes in Living Organisms	MS-LS1-6; MS-LS4-2
11. Why Don't Peas Grow in the Ocean?	Transport Across Cell Membranes	MS-LS1-5
12. You Can Be a Horticulturist	Hormones and Plant Growth	MS-LS1-4
13. How Do Seeds Know Which Way to Sprout?	Geotropism	MS-ESS2-4
14. Slow and Steady Wins the Race	Weathering and Erosion	MS-ESS2-6; MS-ESS3-1
15. Name That Rock	Properties of Rocks	MS-ESS2-3
16. Take a Look Inside a Sedimentary Rock	Fossils	MS-ESS2-3
17. What Did You Eat for Dinner?	Dissecting an Owl Pellet	MS-LS4-3
18. Animal Activities	Biomechanics, Newton's Laws of Motion	MS-PS2-2
19. Design a Spacesuit	Physical Properties of Materials	MS-ETS1-1
20. What is Friction?	Factors Affecting Friction	MS-PS3-3