

THE MICROSCOPIC WORLD

Tuesdays, January 25-April 26 (no class Feb 22, Apr 5; 12 weeks)

9:30am-10:45am

Ages 6-10

Students explore the microscopic world as they learn to properly use microscopes, prepare slides and investigate common organisms and environments up close. All lab costs are included in registration fee.

Instructor: Nan Reese, MSc, MEd

Location: Science Center (suite 5)

Course fee: \$220 OR \$20/lab

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

Microscopy Basics - Tuesday, January 25

Students learn about different types of microscopes and how they work, as well as practice the proper use of compound microscopes.

Slide Preparation - Tuesday, February 1

Today, we practice making wet mount slides of plant and animal cells and learn the importance of creating realistic drawings of our observations.

Plant Cell Structure - Tuesday, February 8

Students learn about the cellular structure of plant cells, identify plant organelles, and look at pollen and plant roots under a microscope.

Zooplankton, Phytoplankton and Diatoms - Tuesday, February 15

This week, we investigate zooplankton, phytoplankton and diatoms, learn where they live and study their diversity.

Animal Cell Structure - Tuesday, March 1

In today's lab, we focus on the cellular structure of animals and compare tissue samples from various organs to study the diversity of animal cells.



Science of Viruses - Tuesday, March 8

Students study the science of viruses, how they infect, how our body protects itself and then create their own virus art.

Bacterial Science - Tuesday, March 15

Kids learn about helpful and harmful bacteria, examine what they look like, and conduct a bacterial culturing experiment.

Soil Microcopy - Tuesday, March 22

We investigate soil as a complex living ecosystem, what it is made of and explore microscopic creatures that live in the dirt.

Pond Critters - Tuesday, March 29

We study the biology and diversity of aquatic protozoans, algae and animals collected from a local pond.

Fungal Science - Tuesday, April 12

Students learn about yeast, investigate mold hyphae, mushroom gills and spores under a microscope and examine see how these decomposers spread.

Scanning Electron Microscope - Tuesday, April 19

Kids learn how scanning electron microscopes differ from compound microscopes and try to figure out what the SEM images were created from.

Microscopy Everywhere - Tuesday, April 26

Students look at everyday items close up to observe unexpected textures and shapes using the microscope.

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