



## **SCIENCE LAB BASICS**

Mondays, September 12-December 12 (No class Oct 10 or Nov 21; 12 weeks)

11:00am -12:15pm

Ages 6-10

Students learn about working in a science lab. Lab topics include, safety procedures, proper measurement techniques, learning the proper use scientific tools and equipment (balances, microscopes, measuring tools, pipets), basic chemical reactions and tests, and how to conduct simple science experiments.

Location: Peachtree City Discover Science Center

Full Series - \$220 OR \$20/lab

10% off sibling discount

Register for full semester or individual labs.

### **LAB SCHEDULE:**

**THE METRIC SYSTEM** - Monday, September 12

Students learn how to use scientific tools to measure mass, volume, distance, and temperature using the metric system.

**SUPERBUG MEASUREMENT LAB** - Monday, September 19

Kids practice their scientific measurement methods as they determine the size, mass and volume of Superbugs!

**DENSITY EXPERIMENTS** - Monday, September 26

Students use scientific tools to measure the volume of solids and liquids as they experiment with density cubes and density gradients.

**TEMPERATURE EXPERIMENTS** - Monday, October 3

Today, we practice using thermometers to determine temperature changes during different chemical reactions.

**THE SCIENTIFIC METHOD** - Monday, October 17

We learn and practice the steps of the scientific method as we design and conduct an experiment changing on variable in a glow stick reaction.

**CREATING SCIENCE GRAPHS** - Monday, October 24

This week, we conduct simple experiments to collect data, and graph our results just as scientists do in a real working lab.



### **THE PERIODIC TABLE** - Monday, October 31

We investigate the elements, learn what the symbols on the periodic table mean, figure out why we call water "H<sub>2</sub>O," and watch a simple experiment with helium.

### **EXPERIMENTING WITH PH** - Monday, November 7

Students create color-changing experiments as they determine whether liquids are acids and bases.

### **USING MICROSCOPES** - Monday, November 14

Students learn the proper use of microscopes as we investigate plant and animal cells, create biological drawings and learn to make wet-mount slides.

### **CHROMATOGRAPHY EXPERIMENTS** - Monday, November 28

In this lab, we experiment with chromatography methods to separate different color pigments in markers and plant leaves.

### **DNA EXTRACTIONS** - Monday, December 5

Students learn about the structure of cells and DNA as they follow a scientific protocol to extract DNA out of a strawberry.

### **DISSECTION BASICS** - Monday, December 12

We learn and practice safe dissection methods first on a hot dog, and then on a squid to understand the importance of proper dissection methods in learning anatomy.

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