



## **WEATHER LABS**

Wednesdays, September 14-December 14 (No class Oct 12 or Nov 23; 12 weeks)

11:00am-12:15pm

Ages 6-10

**Students become meteorologists as they learn about wind, rain, and the sun. Students explore the scientific explanation behind tornadoes and hurricanes, learn about different cloud types, model our atmosphere and learn about making weather predictions. Lab supplies are included in registration fee.**

Location: Discover Science Center - Peachtree City

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

10% off sibling discount

Register for full semester or individual labs.

### **LAB SCHEDULE:**

**OUR ATMOSPHERE AND THE SUN** - Wednesday, September 14

We study the Earth's atmosphere to understand how it protects us from many of the sun's harmful light rays, and where weather occurs in the layers above us.

**TEMPERATURE** - Wednesday, September 21

Students learn how thermometers work as we practice reading thermometers, and learn how meteorologists report the days' highs and lows.

**THE WATER CYCLE** - Wednesday, September 28

Today we study how water changes between liquid and gas states, and demonstrate how raindrops form in clouds.

**CLOUDS** - Wednesday, October 5

Although they might look like giant cotton balls, students will create a pressurized environment capable of generating a cloud. Students will explore cloud types and their associated heights.

**RAINBOWS** - Wednesday, October 19

Why do all rainbows have the same color pattern? We investigate how rainbows are created in nature and experiment with prisms.

**WEATHER TOOLS** - Wednesday, October 26

Kids learn how to use tools that measure humidity, air pressure, wind speed and rainfall as they investigate our weather station.



### **WEATHER FORECASTING** - Wednesday, November 2

Like true meteorologist, students learn the symbols and terms associated with weather prediction, and practice their presentation skills as they make their own predictions.

### **THUNDER AND LIGHTNING** - Wednesday, November 9

Students explore what causes thunder and lightning, learn about different types of lightning, and try to create their own lightning.

### **TORNADOES** - Wednesday, November 16

Discover how air pressure and temperature come together to make create the perfect storm as we create a model of a tornado in a jar.

### **HURRICANES** - Wednesday, November 30

Students study differences between tornadoes and hurricanes, and investigate what the "eye of the storm" is and how it forms.

### **SNOW AND ICE** - Wednesday, December 7

Learn how snowflakes and ice form as we study the unusual properties of water molecules, and how they are affected by cold temperatures.

### **CLIMATE** - Wednesday, December 14

We investigate the difference between weather and climate, and learn how oceans affect climate and weather across the world.

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