

## **WEATHER LABS**

Wednesdays, September 16-December 16

No class October 14 or November 25

9:30am-10:45am

Ages 8-10

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.

Instructor: Suzanne Law

Location: Science Center (suite 5)

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

10% off sibling discount

## **LAB SCHEDULE:**

### **OUR ATMOSPHERE AND THE SUN**

Wednesday, September 16

9:30am-10:45am

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 23

9:30am-10:45am

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 30

9:30am-10:45am

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

### **CLOUDS**

Wednesday, October 7

9:30am-10:45am

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 21

9:30am-10:45am

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 28

9:30am-10:45am

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 4

9:30am-10:45am

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 11

9:30am-10:45am

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

## **TORNADOES**

Wednesday, November 18

9:30am-10:45am

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, December 2

9:30am-10:45am

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 9

9:30am-10:45am

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 16

9:30am-10:45am

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

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