



## SfS Away from the Classroom!

### ES16: Weather Basics (Recommended for Grades 3-6)

Please use the following resources to learn about the basics of weather (Rising Air and Falling Rain).

#### Watch these Videos:

<https://www.youtube.com/watch?v=bN7E6FCuMbY> and <https://www.youtube.com/watch?v=QRThy0dsyYQ>

#### Answer these questions:

- Does warm air/water rise or sink? Why?
- Why does water vapor turn into a cloud?
- What makes a cloud rain?
- Can cold air hold more or less water than warm air?

**Activities:** Follow these directions to make a model of rain!

You will need:

<ul style="list-style-type: none"><li>• 1 ziplock bag</li></ul>	<ul style="list-style-type: none"><li>• Hot water (close to boiling - this is an adult job!)</li></ul>	<ul style="list-style-type: none"><li>• Pptional: markers for decorating bag</li></ul>
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1. Optional: Draw scenery on a ziplock bag with markers.
2. Fill about 1/3rd of the ziplock bag with hot water.
3. Quickly seal the bag shut making sure the bag has air above the water. You can blow into the bag and quickly seal it to increase the amount of air in the bag.
4. Set the ziplock bag on a hard surface and observe what happens.



#### Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** Hot air rises and cold air sinks.
  - **Evidence:**
  - **Reasoning:**
2. **Claim:** Rain falls when the air cools down.
  - **Evidence:**
  - **Reasoning:**