



# High School Science Resources

# April 2020

## EARTH AND SPACE SCIENCE- WATER CYCLE

<b>13</b> Create a water Cycle using a Ziplock Bag  Listen to the water cycle song produced by How to learn on YouTube  Take Pictures	<b>14</b> Make it Rain Experiment  Take Pictures	<b>15</b> How Clouds make rain Activity  Take Pictures	<b>16</b> Document what you observed happening in your Water Cycle this week on the provided worksheet.	<b>17</b> Create a Water Cycle diagram  Post your results of your favorite activity on Twitter hashtag # KCS@Home/AAD
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Activities: The Following activities should be used as supplemental activities to engage in exploration of The Water Cycle. The Water Cycle is a demonstration of how water moves continuously on Earth.

Create a water cycle out of a Ziplock bag – This activity will help student learn about the water cycle process.

### Materials:

- Blue food coloring
- Ziploc Sandwich size bag
- Markers
- Sunny Window

### Directions:

- See the example below to label your bag using permanent markers

- Add 1/4 cup of water to the bag
- Add 1 or 2 drop of blue or green food coloring to water
- Close the bag
- Tap the bag to a Sunny Window

# Make it Rain

In the environment when water vapor in the air rises and reaches the atmosphere, it condenses into the water droplets to form clouds. In this experiment, the water vapor condenses into droplets on the top of the bottle. When clouds become heavy, it rains. In the experiment, when the water droplets become too large and they fall like rain.

Materials:

A clear Bottle

Water

A Sunny Window

Patience and Adult Supervision

Directions:

1. Fill the empty Bottle with water about 1 inch high.
2. Place the bottle by a window that receives direct sunlight
3. Wait for a couple of hours
4. Water droplets can be seen on the upper part of the bottle

# Water Cycle Investigation

This is what I observed ....


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# Clouds Make Rain

Materials:

Glass Jar

Shaving Cream

Blue food coloring

Water

Directions:

In a small cup mix the food coloring with some water

Fill the Jar  $\frac{3}{4}$  of the way full

Spray Shaving cream in the jar until it is full

Have the student use a dropper to squirt food coloring on top of shaving cream

Watch as the colored water seeps through the shaving cream and into the water, Just like Rain.

Watch as the "rain" gradually drops through the atmosphere

## Water Cycle Diagram ~

Create The water Cycle Diagram using Paper, Markers, Cotton balls, Qi tips or any other Materials that you can think of.

Websites to support Learning:

Youtube

- Kidslearningtube.com (Corona virus)
- [Have Fun Teaching – The Water Cycle](#)
- <http://www.weatherwizkids.com>
- <http://www.weather.gov/jetstream/>

National Center for Atmospheric Research

[www.eo.ucar.edu/kids](http://www.eo.ucar.edu/kids)