

## Make It Rain: Homemade Rain Clouds



### Simple Supplies:

- Foam Shaving Cream
- A Clear Jar
- Water
- Food Coloring

\*Tip: If you want a better visual experience, select a medium or large size clear jar.

### How – To:

1. Fill the jar almost to the top with water
2. Cover the top with a “cloud” of shaving cream.
3. Let your child drop food coloring into the cloud until the color starts “raining” into the water below. Explain that this is how rain works too. The water collects in the cloud until there is too much, and then it leaks through, forming rain.

### Fun things to try:

This is a perfect way to sneak a little science in as you explore the skies! Step out into your backyard and have your kids identify the clouds they see. Check out the adult cheat-sheet below. There are different types of clouds. Each has a different altitude and appearance.

# Types of Clouds

## **Cirrus Clouds**

These are the most common high altitude (above 18,000 feet) clouds. They are thin, wispy, and made of ice. They are usually white, and kids can use them to predict fair to pleasant weather.

## **Cirrostratus Clouds**

These are sheet-like, cover the sky, and usually appear 12-24 hours before rain. While they cover the sky, the sun can still be seen through them.

## **Cirrocumulus Clouds**

These appear as small puffs in a long row covering the sky — almost like the scales of a fish. They're usually seen in the winter and indicate fair, but very cold, weather.

## **Altostratus Clouds**

These mid-level (6,500-18,000 feet) clouds are gray or blue-gray, and are made up of ice crystals and water droplets. They fill the whole sky and usually form just ahead of continuous rain or snow.

## **Alto cumulus Clouds**

These are gray puffy masses made up of water droplets. They form in groups, and when you see them in the mornings in the summertime, prepare for thunderstorms in the afternoon or evening.

## **Stratus Clouds**

These cover the sky like fog that doesn't reach the ground, are gray, and produce a light drizzle or mist.

## **Stratocumulus Clouds**

These clouds are low, puffy, and gray. They form in rows with blue sky showing through, and rarely produce rain.

### **Nimbostratus Clouds**

These are wet looking and dark gray. They form in a layer that produces steady falling rain.

### **Cumulus Clouds**

White and puffy, these look like cotton candy and indicate fair weather. These clouds can eventually tower upwards to form cumulonimbus clouds.

### **Cumulonimbus Clouds**

These are thunderstorm clouds. High winds flatten the top of them. These clouds produce heavy rain, hail, thunder, lightning, and can even develop into tornadoes.

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[www.scied.ucar.edu/learning-zone/clouds/cloud-types](http://www.scied.ucar.edu/learning-zone/clouds/cloud-types)