

Read the short story. Then answer each question.

## What Are Clouds?

A cloud is made of water drops or ice crystals floating in the sky. There are many kinds of clouds. Clouds are an important part of Earth's weather.

### How Do Clouds Form?

The sky can be full of water. But most of the time you can't see the water. The drops of water are too small to see. They have turned into a gas called water vapor. As the water vapor goes higher in the sky, the air gets cooler. The cooler air causes the water droplets to start to stick to things like bits of dust, ice or sea salt.



### What Are Some Types of Clouds?

Clouds get their names in two ways. One way is by where they are found in the sky. Some clouds are high up in the sky. Low clouds form closer to Earth's surface. In fact, low clouds can even touch the ground. These clouds are called fog. Middle clouds are found between low and high clouds.

Another way clouds are named is by their shape. Cirrus clouds are high clouds. They look like feathers. Cumulus clouds are middle clouds. These clouds look like giant cotton balls in the sky. Stratus clouds are low clouds. They cover the sky like bed sheets.

### What Causes Rain?

Most of the water in clouds is in very small droplets. The droplets are so light they float in the air. Sometimes those droplets join with other droplets. Then they turn into larger drops. When that happens, gravity causes them to fall to Earth. We call the falling water drops "rain". When the air is colder, the water may form snowflakes instead. Freezing rain, sleet or even hail can fall from clouds.

## Why Does NASA Study Clouds?

Clouds are important for many reasons. Rain and snow are two of those reasons. At night, clouds reflect heat and keep the ground warmer. During the day, clouds make shade that can keep us cooler. Studying clouds helps NASA better understand Earth's weather. NASA uses satellites in space to study clouds.

NASA also studies clouds on other planets. Mars has clouds that are like the clouds on Earth. But other planets have clouds that aren't made of water. For example, Jupiter has clouds made of a gas called ammonia.  
[Via NASA Educational Technology Services]



**Questions:**

1. What do drops of water turn into?

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2. What are two ways clouds get their names?

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3. What kind of clouds are high clouds?

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4. What clouds look like giant cotton balls?

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5. What causes droplets of water to fall to Earth?

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6. What does NASA use to study clouds?

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**Answers:**

1. What do drops of water turn into?  
Drops of water turn into a gas called water vapor.
2. What are two ways clouds get their names?  
Clouds get their names by where they are found in the sky and by their shape.
3. What kind of clouds are high clouds?  
High clouds are cirrus clouds.
4. What clouds look like giant cotton balls?  
Cumulus clouds look like giant cotton balls.
5. What causes droplets of water to fall to Earth?  
Gravity causes droplets of water to fall to Earth.
6. What does NASA use to study clouds?  
NASA uses satellites to study clouds.