



Project Exploration creates transformative learning opportunities for youth underrepresented in the sciences --particularly students of color and girls -- by equipping them with the skills, practices, and mindset needed for a lifelong pursuit of learning. STEM@Home makes activities around science, technology, engineering, and math accessible and fun to do at home. This STEMbook activity, resources, and more are available at www.projectexploration.org/stemathome.

In this activity, you will:

look at the different types of clouds!



Supplies Required:

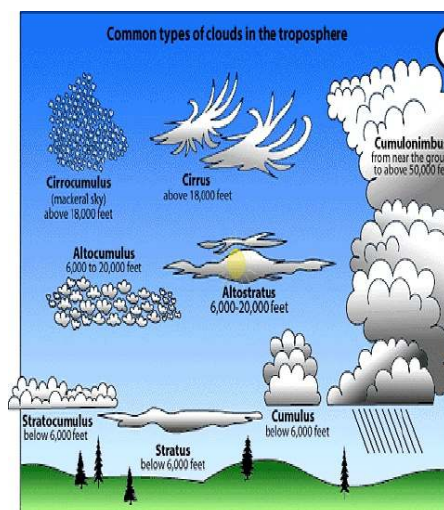
Pen and paper

Video

Learn how to observe clouds and help NASA: <https://tinyurl.com/ttbyqux>

Overview

When water vapor near the ground rises, some vapor gets cold and turns into droplets. Clouds are a collection of these water droplets. There are many different types of clouds because of how high they are in the atmosphere, the different temperatures in the air, and the way wind shapes each cloud. Take a look at the diagram to see different types of clouds.



Clouds

Cirro- given to high altitude clouds- means *wisp of hair*.

Alto- given to mid-altitude clouds- means *high*.

Nimbo (prefix) or **nimbus** (suffix)- is used for clouds that bring rain.

Cumulo- means *heap* and refer to piles of clouds.

Stratus- means *layer* and refers to flat wide layered clouds.

Learn

Instructions

1. Go outside with parent's permission.
2. Take a look at the sky--do not stare into the sun!
3. Draw and describe the clouds you see.
4. Compare your drawing to the diagram. Can you identify the clouds you see?

Additional Resources

Think About It! What types of clouds do you think are the most common near lakes and oceans? Over deserts? Explain your thinking! Compare and contrast a humidifier, the rainforest, and cloud formation. How are they similar? How are they different?

1. Read more about types of clouds: <https://tinyurl.com/qkjo9k8>
2. Learn about how clouds form: <https://tinyurl.com/y8ubsy8b>
3. Learn about the water cycle with Miss Frizzle: <https://tinyurl.com/uy4p6ry>

Share It Out

Share on social media: take pictures of your clouds and your drawings! Use your drawings to decorate your bedroom. Ask your friends to draw clouds around them and send you their pictures.

Share your cloud pictures and observations using the hashtags:

#PEClouds
#ProjectExploration
#StemAtHome

Share via PE's website: Students who complete STEM@home activities and share what they learned with the PE team via our website will earn points which can be traded in for cash prizes at the Explore Store. Your project number is 304. Learn more at www.projectexploration.org/explore-store

Join PE's character contest!

Design a STEM character who will lead kids through activities and be featured on our website and in our STEMbooks. Cash prizes will be awarded to the top 3 finalists. Learn more at: www.projectexploration.org/character-contest.



Call or text us for help: 312-772-6634

www.projectexploration.org