

Atmosphere Activity Bag

Clouds: Teacher Instructions

1. Use the GLOBE: Clouds slide deck to introduce citizen science and the Clouds project
2. Have students set up their GLOBE Observer accounts.

For more tips and resources for using GLOBE in your classroom please visit

<https://observer.globe.gov/toolkit/clouds-toolkit> and

<https://www.globe.gov/documents/348614/7b79ee82-ebd6-4382-9283-181a412f063f>

Part 1: GLOBE - Clouds

1. Use the GLOBE: Clouds slide deck and go over why the Clouds app is important
2. Ask students to answer the following questions.
 - a. Why do you think clouds are important?
 - b. What would the Earth be like without clouds?
3. Explain that we will make some cloud observations and help contribute data to NASA scientists.

Part 2: Making a GLOBE - Clouds Observation

1. Use the GLOBE: Clouds slide deck to show how to make an observation.
2. Place students in groups of four. It is ok if there is a group of three. Give each group a [Sky Window](#). The sky window will need to be printed out ahead of time.
3. Demonstrate in the classroom how the students should stand when they get outside.
4. Take the students outside and find a safe area to make the observation. Space out the student groups and have them make an observation by following the directions:
 - a. Open up the GLOBE OBSERVATIONS app and click on clouds.
 - b. Click New Cloud Observation and work with your group to make an observation. **Take your time.**
 - i. Your organization can be whichever is closest to you.
 - ii. Your local date, time, and coordinates should show up automatically
 - iii. You can use the sky window to help you.

Part 3: GLOBE - Clouds and People

Students will have the opportunity to explore different people that work with the app GLOBE: Clouds. They should follow the following directions:

1. Open <https://observer.globe.gov/> on your computer.
2. Hover over **News, Events, and People** and click **People**.
3. Under Filter By, click category, and select Clouds.
4. Select one of the people involved with Clouds and answer the following questions
 - a. What is their name?
 - b. What is their job title?
 - c. How are they associated with the app GLOBE: Clouds and how has that impacted them and/or their communities?