

Name: _____ Date: _____ Hour: _____

Earth Science Cloud Type Webquest



In this webquest, you will review the factors involved in the formation of different types of clouds, as well as the type of weather associated with each. The following website may be used, but you are not limited to it.

<https://www.weather.gov/jetstream/formation>

Topic 1: How do clouds form?

1. What are the two main ingredients required in the appearance of a cloud?
2. List the roots of the words used to name the cloud types and their meanings below:
3. Describe how a cloud forms. Be sure to mention: *warm air, water vapor, condensation nuclei, condensation, and the change in temperature of the air.*

Topic 2: The Core 4

As you match the cloud labels to the correct pictures, give a brief description and sketch of each type of cloud below:

Cloud Type	Description	Low/Middle/High	Sketch
Cirrus			
Cumulus			
Stratus			
Nimbos			

Complete the following:

4. Clouds formed in the high altitudes, above _____ meters are named using the prefix _____.
5. Clouds formed in the middle altitudes, between _____ and _____ meters are named using the prefix _____.
6. Clouds formed in the low altitudes, below _____ meters are named _____ and _____.
7. Clouds with precipitation falling are named using latin prefix _____ or _____.
8. What type of human activity leads to the formation of contrails?

Topic 3: What can I learn from observing each type of cloud?

Cloud Type	Type of weather is this cloud associated?
Cirrus	
Cirrostratus	
Cirrocumulus	
Altostratus	
Alto cumulus	
Cumulonimbus	
Stratocumulus	
Cumulus	
Nimbostratus	

Topic 4: Color of Clouds

9. Why is the sky blue?
10. Why are clouds white?