

Weather vs. Climate Tutorial

Please go to the following website and complete the closed notes below.

<http://floridastudents.org/PreviewResource/StudentResource/119007>

What do we know about weather?

Weather is the atmospheric conditions at a _____ time. Weather can be predicted by looking at _____ weather. Weather follows a _____ pattern.

What is weather?

Some examples of weather conditions are _____, thunderstorms, _____, and sun. There are also extreme weather conditions such as _____ and hurricanes.

Some variables that describe weather:

_____ is the measure of kinetic energy of the molecules in the atmosphere.

Wind direction and speed is tracking the direction of wind as it moves from areas of _____ pressure to areas of _____ pressure.

Precipitation is water that falls from the clouds in the atmosphere when the clouds are _____ in the form of _____, snow, _____, or hail.

_____ is the percent of the sky in the area that is covered by clouds.

What is Climate?

Climate is _____ weather. Climate describes the atmospheric conditions over a _____ region. Climate is the _____ weather type for a region.

There are several different climates on Earth. Some examples are _____, Continental, Dry, _____, and moderate.

Some variables of climate are latitude, _____, altitude, vegetation, _____.

Go to this site and read the following text. When complete, answer the questions on the back of this page related to the text.

<http://www.weatherwizkids.com/weather-climate.htm>

Text-Dependent Questions and Writing Prompt for Complex Text Article Title: Climate

Vocabulary Questions:

1. According to the article, what is the difference between climate and weather?

Text Evidence/Content Questions:

1. According to the article, what effect does the water cycle have on weather patterns and climate?

2. What is the significance of the Sun to the Earth? Why do we have seasons?

3. According to the article, what is the effect of the moon on the Earth?

Writing Prompt: Summarize the structure of the atmosphere and how the atmosphere protects life and insulates the planet. Use examples from the text in your summary. In addition, you may draw a picture to illustrate your summary.