

NAME \_\_\_\_\_

This Science Connection Webquest will provide interesting and important information about the weather system, global warming, and the greenhouse effect. You will also learn what you can do to combat climate change and protect our planet.

***TIP: Read all of the directions and the text before answering the questions!***



While this activity has live links, please print out a copy of this activity before you begin and record your answers to turn in on the first day of school. This will enable you to receive tickets for completing the Science Connection. A hard copy is available at the Middle School office if needed.

## **Part 1: Weather vs. Climate**

Directions: Click on the link below. After reading the online text, answer the following questions.

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

1. The weather is the state of the atmosphere at any time, including things such as:
  
2. What causes daily changes in the weather?

3. What causes seasonal changes?

4. What are the two sides of a mountain?

5. Explain how mountains affect weather and climate?

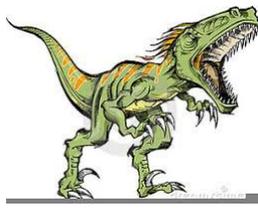
6. Draw and label and each step of the water cycle in the space below:

7. What is Climate Change?

8. Briefly describe Global Warming and the Greenhouse Effect.

9. Draw and label the Greenhouse Effect.





3. How do the climate changes that occurred in the past differ from today's climate change?

**Directions:** Click on this link:

<https://archive.epa.gov/climatechange/kids/basics/concepts.html>

4. If this summer is hotter than last summer, is that evidence of climate change? Why or why not?
5. What evidence do scientists have that climate change is occurring?
6. **Directions:** Now that you've learned about Climate Change and the Greenhouse effect, suggest some ways that everyone can help protect our planet. Share your suggestions below.