

Name _____

Directions: With a partner, visit the website below and answer the following questions. Please write using complete sentences and make sure that you are taking detailed notes. This will help you to fully understand what climate change is, and how it is affect various aspects of our Earth.

<https://www3.epa.gov/climatechange/kids/basics/index.html>

1. What is weather?
2. What is climate?
3. What are greenhouse gases?
4. What is carbon pollution?
5. What are the 5 signs of climate change we are seeing now?
 - a. Click on Higher Temperatures. What was the warmest decade ever recorded in history?
 - b. What is a heat wave?

- c. If people keep adding greenhouse gases into the atmosphere at the current rate, what will happen by the year 2100?
- d. What will happen to the temperature if we use more renewable resources instead of fossil fuels?
- e. What are some of the major effects that higher temperatures have on people and the environment?
- f. Explain how higher temperatures effect agriculture.
- g. Explain how higher temperatures effect energy.
- h. Explain how higher temperatures effect water supplies.
- i. Explain how higher temperatures effect health.

j. Explain how higher temperatures effect plants, animals, and ecosystems.

k. Explain how higher temperatures effect forests.

l. Explain how higher temperatures effect recreation.

6. What are some of the impacts of climate change?

7. Click on the Wilder Weather

a. What has happened over the past 20 years?

b. What is expected to happen in the future?

c. What effects does wild weather have on people and the environment?

8. Click on Rising Sea Levels.

- a. Why is the sea level rising?
- b. How much has the sea level risen over the past 100 years?
- c. Why does it matter that the sea level is rising?
- d. What are the major effects of rising sea levels on people and the environment?

9. Click on Droughts

- a. What is a drought?
- b. Why does it matter if we have more droughts?

10. Click on Changing Rain and Snow Patterns

- a. On average, the world is getting more precipitation now than it did 100 year ago. What is expected to happen in parts of the United States?

- b. Check out the major effects of changing rain and snow patterns on people and the environment. Write down 5 facts here:

Spicy challenge option: Choose one example of a renewable resource, and create a presentation on how that resource can help fight against/reduce climate change.