

Name: \_\_\_\_\_

# Global Warming Webquest

This website is designed to help you gain a better understanding of global warming and the greenhouse effect. You need to complete the series of activities outlined below and answer any questions on this sheet. Have fun!

Go to my website: <http://www.misssimpson.com> and select the "global warming webquest" icon from the Life and Living webpage or if this fails to load go to [www.google.com](http://www.google.com) and in the question toolbox type "EPA kids" and select the 2<sup>nd</sup> website from the list generated for you. The website homepage should look like the picture below.



Click on the rain cloud icon "climate & weather"

1. What is weather? \_\_\_\_\_
2. What is climate? \_\_\_\_\_

Scroll back up and from the left hand side of the page select the earth icon that says "climate change - what is it?"

3. What types of gases make the earth warmer by trapping energy in the atmosphere? \_\_\_\_\_
4. What is climate change? \_\_\_\_\_
5. What is global warming? \_\_\_\_\_

Scroll back up and from the left hand side of the page select the icon that says "What is the climate system?"

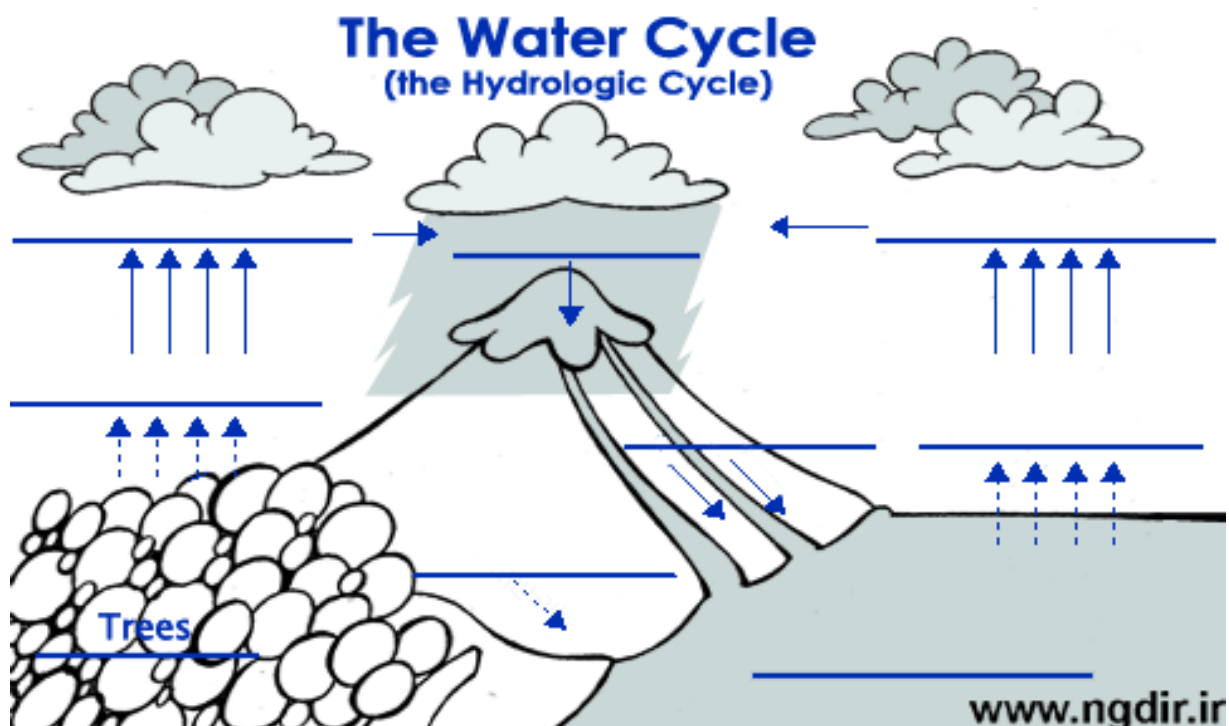
Complete the following table:

	Definition
Atmosphere	
Ocean	
Land	
Ice	
Biosphere	

Click on the animation of how the planet's water cycle is likely affected by climate change



Using the information you have learned from the animation, label the diagram below.



When you have watched the film you need to click the "back arrow" on your web browser to get back to the original page.

Click on the animation of how the planet's carbon cycle is likely affected by global warming.

6. Name five places where carbon is found \_\_\_\_\_

7. Plants also release carbon into the atmosphere through a process called \_\_\_\_\_

*Complete the following sentence*

When plants and trees die they \_\_\_\_\_ and become part of the soil. After long periods of \_\_\_\_\_ some of this matter is compacted and transformed into \_\_\_\_\_ such as \_\_\_\_\_ and \_\_\_\_\_.

8. Gases containing carbon move between the ocean's surface and the atmosphere through a process called \_\_\_\_\_

9. Describe one way that humans influence the carbon cycle \_\_\_\_\_

Click the "back arrow" on your web browser to get back to the original page.

Scroll back up and from the left hand side of the page select the magnifying glass icon that says "**the climate detectives**"

10. What information can weather stations give us? \_\_\_\_\_

\_\_\_\_\_

11. What do weather balloons do? \_\_\_\_\_

\_\_\_\_\_

12. What is an ocean buoy? \_\_\_\_\_

13. What information can weather satellites give us? \_\_\_\_\_

\_\_\_\_\_

14. How do scientists use ice cores to give them information about the climate? \_\_\_\_\_

\_\_\_\_\_

15. What do tree rings tell us? \_\_\_\_\_

Scroll back up and from the left hand side of the page select the icon that says

**"greenhouse effect"**

16. What is the greenhouse effect? \_\_\_\_\_

\_\_\_\_\_



17. What are greenhouses used for? \_\_\_\_\_

18. How do greenhouses work? \_\_\_\_\_

\_\_\_\_\_

*Complete the following sentence*

Greenhouse gases in the atmosphere behave much like the \_\_\_\_\_ in a greenhouse.

\_\_\_\_\_ enters the Earth's \_\_\_\_\_, passing through the blanket of \_\_\_\_\_  
\_\_\_\_\_. As it reaches the Earth's surface, land, water, and \_\_\_\_\_  
absorb the sunlight's energy.

19. Why is the greenhouse effect a good thing? \_\_\_\_\_

\_\_\_\_\_

Click on the animation of how enhancing the greenhouse effect likely contributes to global warming.

Scroll back up and from the left hand side of the page select the bandaid icon that says **"can we change the climate?"**

20. List 6 ways that you send greenhouse gases into the air \_\_\_\_\_

---

---

Scroll back up and from the left hand side of the page select the tree icon that says **"We can make a difference"**

21. List 6 ways that we can make a difference to climate change \_\_\_\_\_

---

---

Scroll down and click on the link that says **"Front Page"**

Click on the icon that says **"Climate change calculator"** and use this calculator to learn about simple steps you as an individual can take to reduce your impact on the planet.

Click the back arrow until you come back to the main page



Click on the games icon and choose a game you would like to play.

**END OF WEBQUEST**