

Name \_\_\_\_\_

## Climate Change Webquest

<https://climate.nasa.gov>

Scroll down to "What is Climate Change?"

Click on "Evidence"

1. For centuries, atmospheric carbon dioxide had never been above how much? \_\_\_\_\_
2. Starting at which year has the amount been steadily increasing?  
\_\_\_\_\_
3. Most climate change throughout history can be attributed to what?  
\_\_\_\_\_  
\_\_\_\_\_
4. How do greenhouse gases contribute to global warming? \_\_\_\_\_  
\_\_\_\_\_
5. What information does the paleoclimate reveal?  
\_\_\_\_\_
6. How much has the planet's average surface temperature risen?  
\_\_\_\_\_
7. When have the 5 warmest years taken place? \_\_\_\_\_
8. How much have the oceans warmed? \_\_\_\_\_
9. How much ice has been lost from Greenland and Antarctica?  
\_\_\_\_\_  
\_\_\_\_\_
10. What is happening to glaciers? \_\_\_\_\_
11. Explain what is happening to snow cover:  
\_\_\_\_\_  
\_\_\_\_\_
12. How much has global sea level risen in the last century? \_\_\_\_\_
13. Extreme events: Explain what has been happening since 1950: \_\_\_\_\_

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14. Why is the acidity of the oceans rising? \_\_\_\_\_

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Click on "Causes"

15. Define greenhouse effect:

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16. List gases that contribute to greenhouse effect:

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17. Which is the most abundant greenhouse gas? \_\_\_\_\_

18. List ways that carbon dioxide gets released:

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19. List 4 ways that methane is released:

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20. List 2 ways nitrous oxide is released:

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21. Explain the origin of CFCs and tell which atmospheric layer they destroy:

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22. Name 3 human activities that increase carbon dioxide:

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23. How will individual regions vary in climate?

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24. What could be another cause of climate change?

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25. How has the answer to #24 been shown to be false?

26. Why is a 2 F difference actually a big deal?

27. Describe the changes in precipitation pattern for the northern US:

28. What is expected for the Southwestern US?

29. Describe the change in hurricanes:

30. How much will the sea level rise?

31. What are 3 effects of sea level rising?

32. What is likely to become ice free?

33. Describe the changes in the area of the US where you live:

34. Watch "Earth 360 video: The Call of Science" and write a 4 sentence reaction: