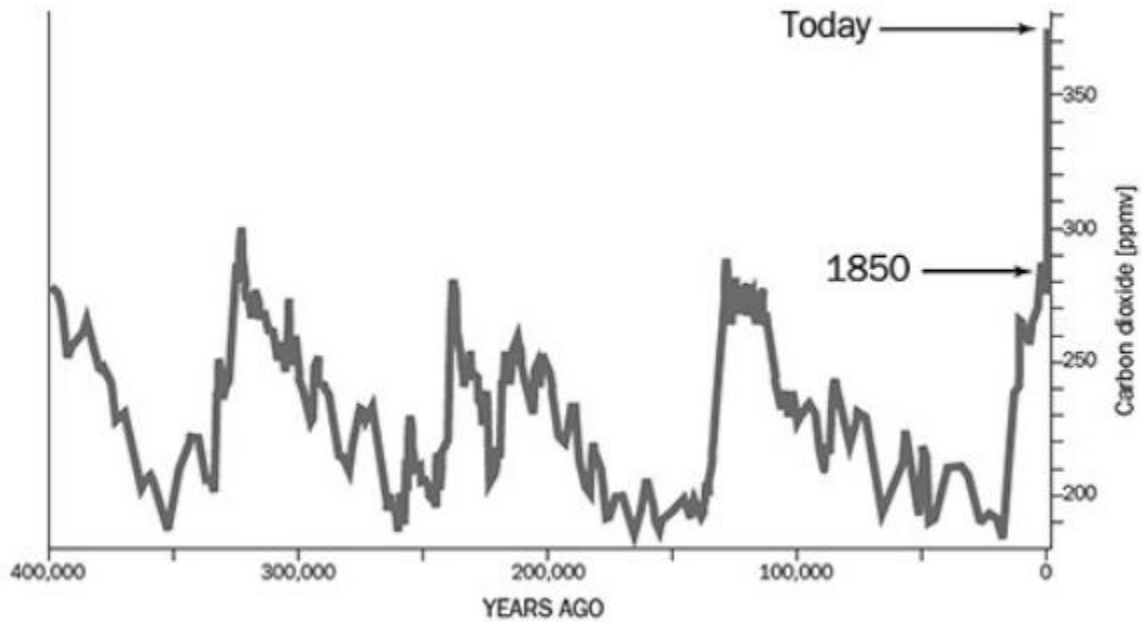


CLIMATE CHANGE + GREENHOUSE GASES REVIEW SHEET



1.

1. Some people believe that the current rise in carbon dioxide is part of a natural cycle of changes. Based on this graph, what would your reply be to this belief?

2. What are some greenhouse gases in the atmosphere and what is their purpose?

3. How have humans studied climates in the past (before humans existed?)

4. What are the 3 forces that cause Earth's climate to change naturally?

5. How does the speed of climate change in the past compare to today

6. Define the following:

Weather:

Climate:

Greenhouse Effect:

Albedo:

Lithosphere:

Hydrosphere:

Biosphere:

Atmosphere:

7. How have humans altered the carbon cycle? Write 2 pieces of evidence below and explain how this shows humans altered the carbon cycle (reasoning):

8. If an object has high albedo... it heats up _____

9. Who did the Lorax speak for and why?

10. What spheres do we find carbon in?

a. Where was carbon stored before the Industrial Revolution?

b. Where did a lot of carbon end up after the Industrial Revolution?

11. What are some of the causes of climate change?

12. Be able to (this will be written):
create your own feedback loop and

create one relating to climate change using the following scenarios:

Humans burn fossil fuels for energy, Humans run their AC / fan, CO2 traps heat and warms the atmosphere, CO2 is released from factories that burn fossil fuels

Ice melts, More sunlight is absorbed, The ground is exposed and lowers the albedo, The ground and ice heat up

13. Draw or describe the Greenhouse effect on Earth

14. How have places our planet changed through time? Focus on the images that are evidence of climate change. *Use the following link if you forget this activity:*

<https://climate.nasa.gov/images-of-change?id=629#629-drought-shrinks-theewaterskloof-reservoir-in-south-africa>

15. Based on this unit, what do you expect the planet to look like in 50 years?

16. Think back to when we calculated electricity and water savings. What are ways that you can reduce your impact on Earth and help slow down climate change?