What is Climate and How Is It Changing?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_

Define the following terms:

* Atmosphere
* Carbon sink
* Carbon source
* Fossil Fuels
* Greenhouse Effect
* Greenhouse gas

1. What is climate change?
2. How does the greenhouse effect Earth suitable for life?
3. Most radiation form the sun is absorbed by Earth’s surface and warms it. The heat is then emitted back into the atmosphere. How do greenhouse gas molecules affect this heat?
4. Give an example of a natural greenhouse gas and give an example of a manmade greenhouse gas
5. How much have CO2 levels rise since the industrial era ***and*** what is this increase a result of?
6. Give examples of carbon sources.
7. Give examples of carbon sinks.
8. How do we know what CO2 levels were like thousands of years ago?
9. Since the 1950s, how have scientists been collecting CO2 data?
10. What are some of the documented consequences of increasing CO2 concentrations?