

Name:

Note:

SNC2D Climate Change Review Package

1. List three (3) pieces of information that describe weather?
2. What is the difference between weather and climate?
3. What 3 factors are used to define a climate zone?
4. List three (3) factors that affect climate and explain one (1) of them.
5. What are ultraviolet radiation and infrared radiation? How do they differ?
6. Why is the Sun such an important component of our climate system?
7. How does Earth maintain an energy balance?
8. Which country would have a warmer climate; Egypt or Norway? Why?
9. Draw and explain the Natural Greenhouse Effect. Explain the role that humans are playing and how it impacts the Greenhouse effect.
10. What are greenhouse gases? Provide three (3) examples.
11. Why is the natural greenhouse effect necessary to life on Earth?
12. Why is carbon dioxide considered to be such an important GHG, even though methane and water vapour absorb more heat?
13. How does continental drift influence Earth's climate?
14. Why does Earth go through cycles between ice ages and interglacial periods?
15. What are two (2) short-term variations in climate? Explain one (1) of them.
16. What is a feedback loop? Describe an example of a feedback loop. (Hint: We discussed two (2) in class)
17. There are many clues that help us understand past climates. Pick two and explain how climatologists (climate experts) get climate information from them.
18. List 3 pieces of evidence that show that the Earth's climate is currently changing.
19. What are 2 reasons that sea levels are rising?

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20. Why do the records of increasing surface temperatures and atmospheric carbon dioxide levels support the hypothesis of anthropogenic (human-caused or human contributed) climate change over the last 150 years?
21. What are some sources of nitrous oxide? (Hint: I can easily use this question on the test, but with a different Greenhouse gas)
22. We discussed cleaner energy sources in class. Pick two (2) and explain how they work.
23. What is a drawback to nuclear energy?
24. What is the Paris agreement? What is Canada's goal for its contribution?
25. Why are governments hesitant to participate in emission reduction practices to help the Global Warming issue?
26. What can Canadian businesses, industries and governments do to ease the climate issue? Provide two (2) examples for each. (Hint: We discussed six (6) in class)
27. List two (2) things that you can do to minimize your impact on climate change.
28. What is a carbon offset credit?

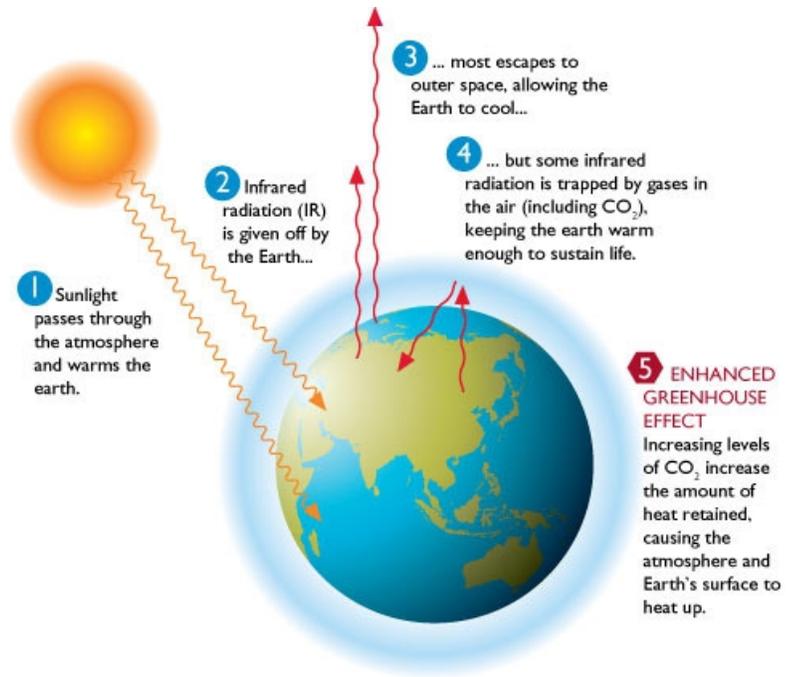
Fill in the Blanks

Name:

Arctic Ice Feedback Loop

Note:

Natural/Anthropogenic Greenhouse Effect



Arctic Ice:

- 1.
- 2.
- 3.

Greenhouse Effect:

- 1.
- 2.
- 3.
- 4.

Definitions

Define the following words:

Name:
Thermal Expansion

Note:

Ice Sheet

Stewardship

Climate System

El Niño

Continental Drift

Greenhouse Effect

Kyoto Protocol

Ice Age

Interglacial Period