

Week 6: GLOBAL CLIMATE CHANGE

SEE, THINK, WONDER: Study the image. Write at least 3 observations, 3 hypotheses and 3 questions below.



SEE:

THINK:

WONDER:

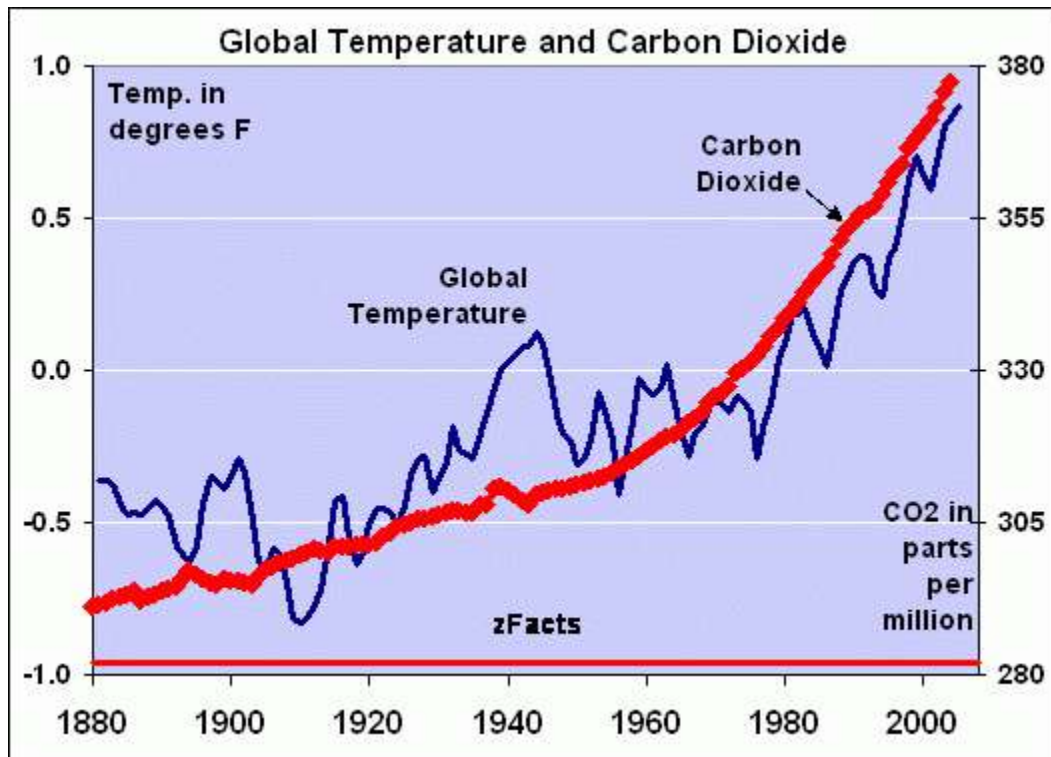
WATCH: Watch BOTH of the videos and answer the questions below. You may do additional research to answer the questions.

<https://www.youtube.com/watch?v=oJAbATJCugs>

https://www.youtube.com/watch?v=G4H1N_yXBiA

- 1) Name at least 3 greenhouse gases.
- 2) Why are they called greenhouse gases? Describe how they affect energy that we are receiving from the Sun.
- 3) Describe at least 2 sources of greenhouse gases.

EXPLORE CAUSES: Use the graph to answer the questions provided below.



- 4) Describe the relationship between temperature and carbon dioxide (CO₂) concentrations.
- 5) Predict what causes the CO₂ levels to increase dramatically around the time they did.

EXPLORE EFFECTS: Use the resources on [NASA's website](#) to explore the effects of global climate change on global sea ice, sea levels and global temperatures.

Create a claim, supported by evidence and reasoning, to explain how the following features are affected by global climate change.

Global Sea Ice:

Claim:

Evidence:

Reasoning:

Sea Level:

Claim:

Evidence:

Reasoning:

Global Temperatures:

Claim:

Evidence:

Reasoning:

CONCLUSION/PREDICT:

What will happen to the Earth if the trends that we are seeing above continue?
Specifically, what could happen to a coastal area, like Staten Island? Support your answers with evidence from your research.

Describe at least two changes that the average person can make to help to change the trends that we are seeing. Please explain why that would help.