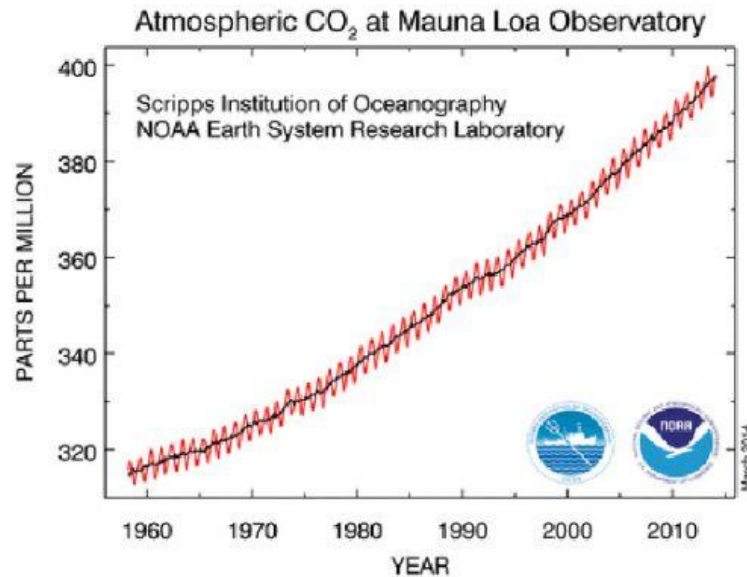


## Scientific Method Practice Worksheet

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1.  
How much has the atmospheric CO<sub>2</sub> content in parts per million (ppm) increased since 1958?
  - a. 325 ppm to 395 ppm
  - b. 315 ppm to 398 ppm
  - c. 335 ppm to 385 ppm
  - d. 300 ppm to 400 ppm
2. What makes a good scientific question?
  - a. A question that cannot be answered using data or observations.
  - b. A question that involves spiritual matters.
  - c. A question that is testable.
  - d. None of the above.
3. The first step in the scientific method usually is:
  - a. Formulate a conclusion
  - b. Ask a question
  - c. Develop a hypothesis
  - d. Conduct an experiment
4. After finding out that carbon dioxide is increasing in the atmosphere, what would be a good question to try to answer with an experiment?

- a. What is causing the increase in carbon dioxide in the atmosphere?
  - b. Which other greenhouse gases are increasing in the atmosphere?
  - c. What is the effect of increasing atmospheric carbon dioxide on the atmosphere?
  - d. All of the above
5. Why do scientists use the scientific method?
- a. So that other scientists can duplicate the experiment
  - b. To ensure that experiments are done in an unbiased and standardized way
  - c. To support or refute a hypothesis without bias
  - d. All of these answers
6. How is a hypothesis tested?
- a. By completing an experiment
  - b. By comparing two theories
  - c. By formulating a conclusion
  - d. By proposing an explanation to a question
7. When a hypothesis is being tested, but the scientific method is not followed, the hypothesis must be
- a. Discarded immediately
  - b. Tested again
  - c. Turned into a theory
  - d. Accepted
8. Which of these is a good scientific question?
- a. Do humans and chimpanzees share a common ancestor?
  - b. Would your best friend enjoy being a lawyer or a flight attendant?
  - c. Is Taylor Swift a good singer?
9. Which of these questions is a good scientific question?
- a. What is the age of our planet?
  - b. How many angels can dance on the head of a pin?
  - c. How many ghosts are there in the room?
  - d. Can psychics help you win the lottery?
10. After asking a question, the next step in the scientific method is to:
- a. Make a law
  - b. Make a hypothesis
  - c. Make a theory
  - d. Formulate a conclusion



Printed: February 12, 2021

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