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## Bell work 8/18-8/26

You are designing an experiment to determine whether plants grow faster with or without water. Which should be varied in order to conduct a controlled experiment?

- A. the type of soil in which you grow the plants
- B. the temperature of water you give to the plants
- C. the amount of sunlight your plants receive
- **D.** the amount of water you give to the plants

The dependent variable can be represented by?

- A. A possible answer to a scientific question
- **B**. Describes an observed pattern in nature.
- **C**. This represents the variable that gets measured.
- **D**. The many ways in which scientist study the natural world.

What is the difference between independent and dependent variable?

## Scientific investigations involve many steps and processes. Which characteristics define a laboratory experiment?

- **A.** hypothesis, models, and calculations
- **B.** test variables, data, and uncontrolled conditions
- **C.** data, conclusions, and unregulated environment
- **D.** independent and dependent variables, data, and controlled conditions
- Scientists conduct many types of scientific investigations. Their efforts often include fieldwork, surveys, models, and experiments. Which statement about scientific investigations is true?
- A. They rarely involve the collection of data under controlled condition
- **B.** They follow exactly the same steps because there is only one scientific method.
- C. They include multiple trials to increase the consistency of the data that are collected.
- Their primary focus seldom includes comparing or describing the unregulated world.