

IDENTIFYING VARIABLES

PRACTICE

3 WORKSHEETS WITH ANSWER KEYS



CRACK THE CODE

The villain known as the Variable Vandal has stolen the location of the next science fair sabotage case. Carefully, identify the variables in each scenario.

VOCABULARY REVIEW

Independent variable: One thing that you change on purpose in an experiment.
Dependent variable: What you measure or observe in the experiment.
Constant: Something that stays the same in every part of the experiment.

How does the amount of fertilizer affect the number of tomatoes that grow?
What is the **independent** variable?

- Amount of fertilizer (R)
- Number of tomatoes (B)
- Color of tomatoes (G)

How does the type of liquid (water, soda, juice) affect the growth of a plant?
What is the **independent** variable?

- Type of liquid (Q)
- Plant height (C)
- Size of the pot (H)

How does the brand of running shoe affect how fast you can run?
What is the **independent** variable?

- Time to finish (M)
- Shoe brand (Y)
- Distance of the race (F)

How does freezer temperature affect how long it takes for ice cream to melt?
What is the **independent** variable?

- Time to freeze (K)
- Freezer temperature (L)
- Flavor of ice cream (Z)

How does the amount of soap in a bubble solution affect the size of the bubbles?
What is the **independent** variable?

- Amount of soap (S)



IDENTIFYING VARIABLES

Directions: Read each scenario and identify the variables.

1. A student wants to find out how the growth of a plant in full sun, one in partial sun, and one in no sun after two weeks.
2. A scientist is testing how the temperature (cold, room temperature, and hot water) affects the growth of a plant.
3. A teacher gives different types of music to a group of students and then gives them a quiz to see how they perform.
4. A researcher is testing how different amounts of fertilizer affect the growth of a plant. He uses no fertilizer, a small amount, and a large amount.
5. Students want to know if the type of paper affects how fast a paper airplane can fly.



CHALLENGE

Write your own experiment idea below. Then identify the independent and dependent variables.

My experiment idea:



IDENTIFYING VARIABLES PRACTICE

Directions: Each of the following is a testable scientific question. Identify the independent variable, the dependent variable, and at least one constant.

VOCABULARY REVIEW

Independent variable: One thing that you change on purpose in an experiment.
Dependent variable: What you measure or observe in the experiment.
Constant: Something that stays the same in every part of the experiment.

1. How does the amount of sunlight a plant receives affect the number of leaves it grows?
• Independent Variable: _____
• Dependent Variable: _____
• Constant: _____
2. How does the temperature of water affect the time it takes for a sugar cube to dissolve?
• Independent Variable: _____
• Dependent Variable: _____
• Constant: _____
3. How does the type of music played during studying affect a student's test scores?
• Independent Variable: _____
• Dependent Variable: _____
• Constant: _____
4. How does the surface a ball is dropped onto affect how high it bounces?
• Independent Variable: _____
• Dependent Variable: _____
• Constant: _____
5. How does the type of liquid used to water a plant affect its height over time?
• Independent Variable: _____
• Dependent Variable: _____
• Constant: _____



CHALLENGE

Write your own experiment idea below. Then identify the independent and dependent variables.

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