

6th Grade Science
Lesson: April 6th, 2020

Learning Target:

I can identify variables in an experiment.

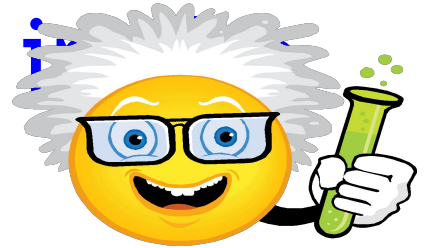
Let's Get Started:

Watch Video: [Study Jams Scientific Method](#)

What is an independent variable, dependent variable, and constant?

Independent Variable (IV)

The ONE factor changed in
experiment.



“I Change IT!!”

Dependent Variable (DV)

What is measured or observed.



“Data Collected”

Helpful reminder: The dependent variable
DEPENDS on the independent variable.

Constants:

The factors that must remain the same throughout the experiment so you have a fair test.

Time each trial for 3 minutes

Use 100 mL of water for each trial

constant = same



Practice:

Identify the independent & dependent variables.

REMEMBER: The dependent variable DEPENDS on the independent variable. Read your answers back to yourself filling in the underlined words!

1. The higher the temperature of the water, the faster the egg will boil.
2. The score on the final test depends on the number of skills attained.
3. Students of different age groups were asked to put the same jigsaw puzzle together, they were timed to see how long it took.

Check your answers on the following slide.

Answers:

Identify the independent & dependent variables.

1. **Independent=** Temperature of water,
Dependent= Time egg boils

(The time it takes the egg to boil **DEPENDS** on the temperature of the water.)

2. **Independent=** Skills attained, **Dependent=** Score

(The test score **DEPENDS** on the skills attained.)

3. **Independent=** Age group, **Dependent=** The time it took to put the puzzle together

(The time it takes to finish the puzzle **DEPENDS** on the age group.)

Practice:

Identify the independent & dependent variables.

Use the link below to practice identifying variables. Record your answers on a sheet of notebook paper. When finished, check the answer key to see how you did.

Links:

[Identifying Variables](#)

[Answer Key](#)

Practice:

Identify the independent & dependent variables.

Test yourself! See if you can select the correct independent and dependent variables.

Link:

[Assessment for Variables](#)

Additional Practice:

Click on the links below to get additional practice and to check your understanding!

[Identifying Variables & Constants](#)

[Identifying Variables & Constants 2](#)