GENERAL

Variables in Science

BLM G-7

CLASS:

Goal • Learn about the difference between a dependent variable and an independent variable.

Introduction

When doing investigations, scientists refer to a possible cause as an "independent variable". A possible effect is referred to as a "dependent variable".

Cause and effect are closely related. As a result, any change to the independent variable results in a corresponding change to the dependent variable.

What to Do

- Fill in the blanks in the chart so that the relationship between the cause and effect (or independent and dependent variables) is clear.
- Answer the questions following the chart.

5. a. Explain what "dependent" means.

investigation?

Independent Variable (possible cause)	Dependent Variable (possible effect)	Explanation (reason for relationship)
As a student increases the hours spent studying,		because studying prepares students for assignments.
As air temperatures decrease in fall,	the water in shallow ponds may	because
As you increase the shaking of a warm soft drink can,	the soft drink inside may	because
4. As you increase the pressure on a tube of toothpaste,		because

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b. How does this definition help you understand the relationship between cause and effect in a science
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