

Name: _____ Date: _____

Dealing with Variables

List all the variables that could affect the outcome of your project. Think hard—there are usually a lot!

Look back at your list. Choose ONE variable that you want to test. Circle it.

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Getting the Variables under Control

Constant Variables

List ALL the variables except the ONE you will be testing. These variables must be controlled, or kept from changing, throughout the entire experiment. Explain how you will control each variable.

VARIABLE

HOW IT WILL BE CONTROLLED

★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____
★ _____	_____

Look back at your CONSTANT variables.

- Have you listed them all?
- Have you explained how you'll control each one?

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Independent Variable

In order for your project to be valid, you must limit the number of independent variables to ONE. The independent variable is the one you are testing or allowing to change. Write your independent variable below and explain how you will allow it to change.

Look back at your INDEPENDENT variable.

- Is there only ONE?
- Have you explained how it will change?

Dependent Variable

In a science fair project, you will have a dependent variable. This is what happens as a result of your independent variable. Explain what your dependent variable is and explain how you will measure your dependent variable.

Look back at your DEPENDENT variable.

- Is your dependent variable measurable?