

# How to Write a Responding Variable in Science

What is a responding (dependent) variable?

Variables that are the result of something that changed are called **dependent variables** or **responding variables**. Again, the term you choose to use depends on how you pair the words.

Ways to improve my Responding (dependent) Variable:

Review the grading rubric below for the difference between accomplished, developing, and not met.

	Accomplished	Developing	Not Met
Responding (dependent) Variable	The researcher described the variable being measured in the experiment and provides explanation for the change.	The researcher described the variable being measured in the experiment.	The researcher did not indicate the responding variable in the experiment.

Responding (dependent) Variables samples with Mrs. Weimer's feedback

1. The responding variable is the amount of traction between the shoe and land when sprinting. This is important because the different types of materials we'll be used for the sole will affect the amount of traction when sprinting.
2. We are going to measure how high we can jump, amount of flexibility, and how stickiness of the shoe's sole.
3. How the shoe works and performs.

**Comment [s1]:** Rating of accomplished. Researcher clearly states the item to be measured in the experiment and reason for measuring it.

**Comment [s2]:** Rating of developing. Researcher states the item to be measured only.

**Comment [s3]:** Rating of not met. How will these two items be measured? What tests does the researcher plan to conduct to collect data on their shoes?