* **Manipulated Variable** – something that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ What is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ What is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Responding Variable** – something that might be affected by the \_\_\_\_\_\_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ variable.
	+ This is what you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ This is what you \_\_\_\_\_\_\_\_\_\_\_\_\_\_ during an experiment.
	+ The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ collected during the investigation.
* **Controlled Variable** – a variable that is \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ Also called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Allow for a “\_\_\_\_\_\_\_\_\_\_\_ test”

**Examples**

1. Students of different ages were given the same jigsaw puzzle to put together. They were timed to see how long it took to finish the puzzle.
* What is the **manipulated variable**? (what was the scientist testing)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* What is the **responding variable**? (what is he measuring during the test?)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What were the **controlled variables**? (constants)
	+ All students would be tested with the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ Same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of students in each age group.
1. Students test this question: The higher the temperature of water, the faster an egg will boil.
* What is the **manipulated variable**? (what is the student changing for each group of eggs?) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What is the **responding variable**? (what are they measuring?) \_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* What variables would you need to **control** to make it a **fair test**? (constants)
	+ Egg \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_
	+ Amount of \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Type and size of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Type and size of \_\_\_\_\_\_\_\_\_\_\_\_.
1. Which stain remover works the best, oxiclean or shout?
	* **Manipulated variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	* **Responding variable**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* **Controls**: (constants)
		+ Size and type of \_\_\_\_\_\_\_\_\_\_
		+ Amount of \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_
		+ \_\_\_\_\_\_\_\_\_\_\_\_\_ procedure
		+ Type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_