

Planning Our Experiment

Step 1: Observing & Questioning

What is My BIG Idea?

Step 2: What could we measure or observe about the object, or event?

Possible Dependent Variable

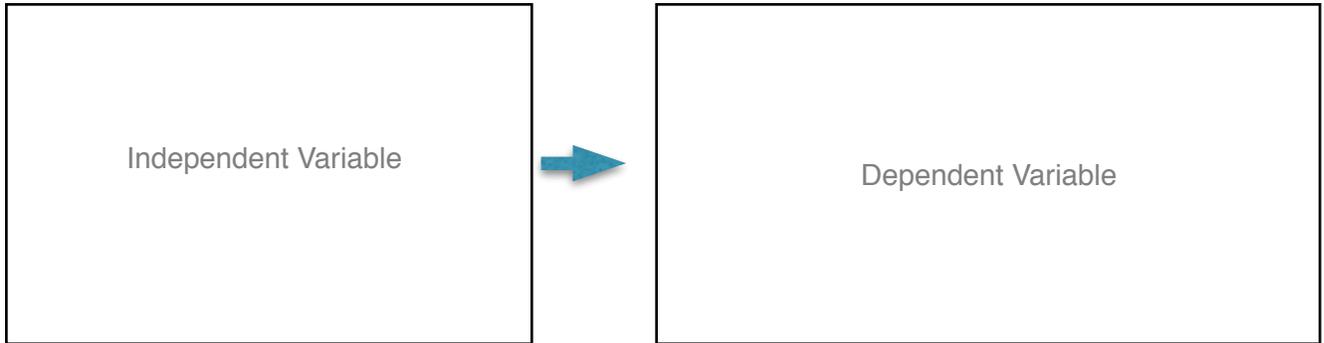
Step 3: What could we change or vary about the object or event that may affect what we could measure or observe?

Variables

Step 4: What will we test?

The variable we will test

We will measure or observe this result



Pick one of the variables from step 3

Pick one of the variables from step 2

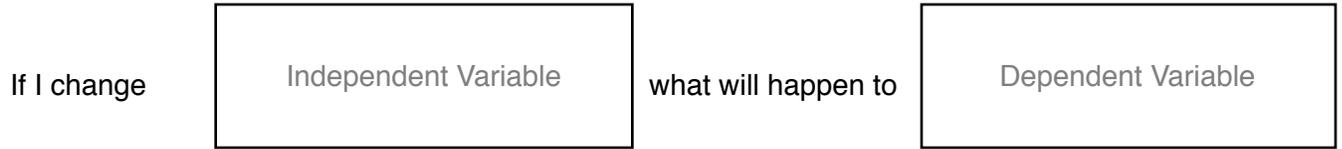
Step 5: What will not be Changed?

Variable We Will NOT Change

What conditions will be held constant so it is a fair test?

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|---------------------|---------------------|---------------------|---------------------|
| Controlled Variable | Controlled Variable | Controlled Variable | Controlled Variable |
| Controlled Variable | Controlled Variable | Controlled Variable | Controlled Variable |
| Controlled Variable | Controlled Variable | Controlled Variable | Controlled Variable |
| Controlled Variable | Controlled Variable | Controlled Variable | Controlled Variable |
| Controlled Variable | Controlled Variable | Controlled Variable | Controlled Variable |

Step 6: What is the question I want to explore?



compared to our control?
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Step 7: What is our Hypothesis? (what and why)

Based upon my question, I predict that:

IF the _____ is _____
Independent Variable *How the independent variable will be changed*

THEN the _____ will _____.
Dependent Variable *How the dependent variable will be affected*

I think this will happen BECAUSE:
