

Steps to Inquiry

Initiate & Plan

Step 1: Observing & Questioning

What did I observe?

(What do you notice about the object or event? Use your senses to describe the object or event.)

What am I wondering?

(What questions or predictions do you have about the object or event?)

Labeled diagram:

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Step 2(a): **What could I change or vary about the object or the event?**

- Brainstorm (*Place sticky notes of the same colour in the squares below.*)

Variable

Variable

Variable

Variable

Variable

Variable

Step 2(b): **What could I measure or observe about the object, or event?**

- Brainstorm (*Place sticky notes of a new colour in the squares below.*)

Dependent
Variable

Dependent
Variable

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Step 3: **What will I change and not change?**
- Choosing Variables

One variable I will change:

**Independent
Variable**

(Place a sticky note from Step 2(a) here)



I will measure or observe this result:

**Dependent
Variable**

(Place a sticky note from Step 2(b) here)

Variables I will NOT change:

What conditions will be held constant so it is a fair test? *Place remaining sticky notes from Step 2(a) here.*

**Controlled
Variable**

**Controlled
Variable**

**Controlled
Variable**

**Controlled
Variable**

**Controlled
Variable**

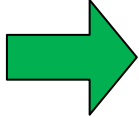
**Controlled
Variable**

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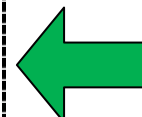
Step 4: What is the question I want to explore?

If I change this one variable...



Independent Variable

If I don't change this one variable...



Write your question here:

What will happen to:



Write your question here:

Dependent Variable

Step 5: What is my prediction (what and why)?

Based upon my question, I predict that :

What?

if I change

(Independent Variable)

then I predict this will happen to what I will measure or observe:

(Dependent Variable)

Why?

I think this will happen because
