

## Investigation Design and Perform

### Step 1: Observing & Questioning

Place sticky notes of the same colour in the space below.

#### WHAT DID I OBSERVE?

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

Place sticky notes of a new colour in the space below.

#### WHAT AM I WONDERING?

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

How can the questions be answered?  
(Question Sort)

#### LABELLED DIAGRAM:

Level: 2

# Experiment Design and Perform

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

Brainstorm (Place sticky notes of the same colour in the space below.)

Possible Dependent Variables


**Step 2(b):** What could I change or vary about the object or event that may affect what I could measure or observe?

Brainstorm (Place sticky notes of a new colour in the space below.)

Variables

# Experiment Design and Perform

## Step 3(a): What will I change?

<p><b>ONE VARIABLE I WILL CHANGE:</b></p> <div style="border: 2px dashed purple; padding: 20px; min-height: 150px; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; color: #ccc;">Independent Variable</p> </div> <p style="text-align: center; color: #ccc;">(Place a sticky note from Step 2(b) here)</p>		<p><b>I WILL MEASURE OR OBSERVE THIS RESULT:</b></p> <div style="border: 2px solid green; border-radius: 15px; padding: 20px; min-height: 150px; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; color: #ccc;">Dependent Variable</p> </div> <p style="text-align: center; color: #ccc;">(Place a sticky note from Step 2(a) here)</p>
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## Step 3(b): What will I not change?

### VARIABLES I WILL NOT CHANGE:

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

<div style="border: 2px dashed purple; padding: 10px; min-height: 100px;"> <p style="font-size: 1.5em; color: #ccc;">Controlled Variable</p> </div>	<div style="border: 2px dashed purple; padding: 10px; min-height: 100px;"> <p style="font-size: 1.5em; color: #ccc;">Controlled Variable</p> </div>	<div style="border: 2px dashed purple; padding: 10px; min-height: 100px;"> <p style="font-size: 1.5em; color: #ccc;">Controlled Variable</p> </div>
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Level: **2**

# Experiment Design and Perform

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



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

BASED UPON MY QUESTION, I PREDICT THAT:

**if** the \_\_\_\_\_ is \_\_\_\_\_  
Independent Variable How the independent variable will be changed  
 (e.g. increased or decreased, heated or cooled, stirred or not stirred...)

**then** the \_\_\_\_\_ will \_\_\_\_\_  
Dependent Variable How the dependent variable will be affected  
 (e.g. increased or decreased, heated or cooled, stirred or not stirred...)

I think this will happen **because** \_\_\_\_\_

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Level: 2