

### STEPS 🖾 INQUIRY



## **Design Your Experiment**

#### Step 1: Observing & Wondering

Place green sticky notes 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. Include qualitative and quantitative observations.) Observe carefully and take time to discover details that you might miss at first. Place purple sticky notes in the space below.

#### WHAT AM I WONDERING?

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

Your observations can be expressed with words or labelled diagrams.

How can the questions be answered? (Question Sort)

#### Level: 2







**STEPS** INQUIRY



### **Design Your Experiment**

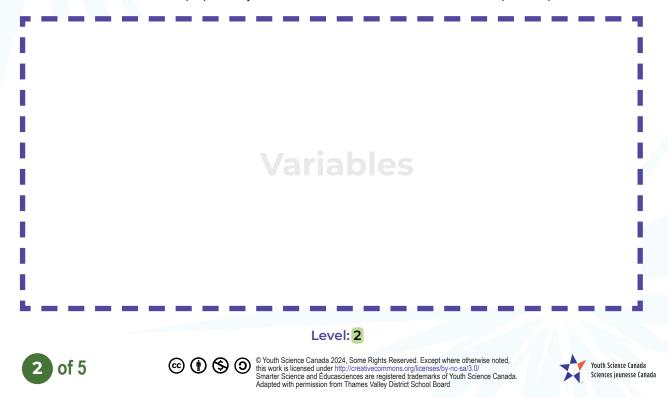
# **Step 2(a):** What could I measure, but can't directly change, about the object or event?

Move selected green sticky notes from the "WHAT DID I OBERVE?" space on poster 1.

# **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?

Move selected purple sticky notes from the "WHAT AM I WONDERING?" space on poster 1.



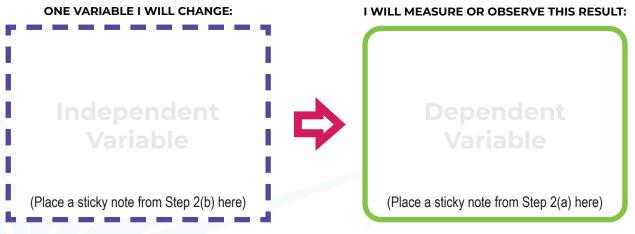


## STEPS 🕸 INQUIRY



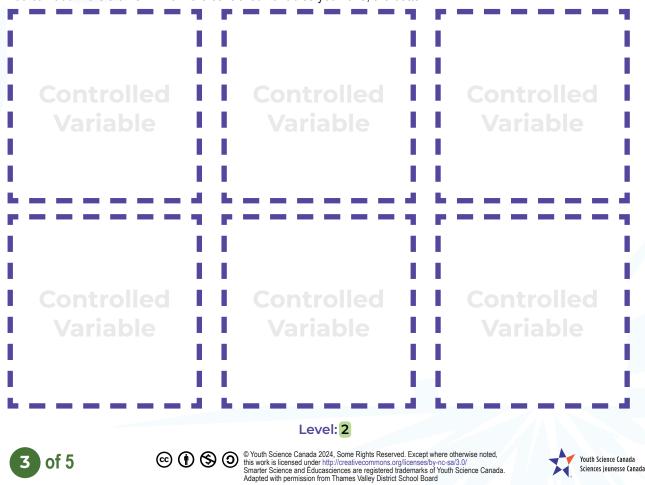
## **Design Your Experiment**

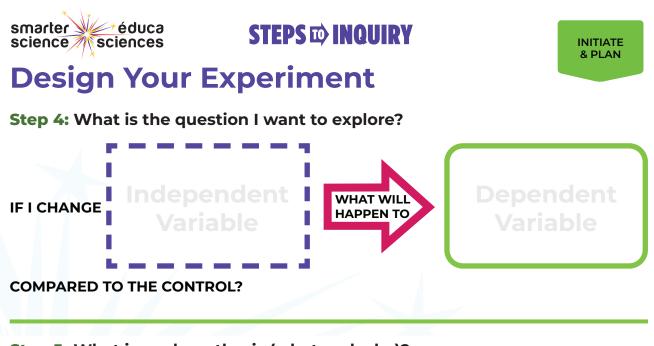
### Step 3(a): What will I change?



#### **Step 3(b):** What will I keep the same? VARIABLES I WILL KEEP THE SAME

What conditions will be held constant so it is a fair test? Place remaining sticky notes from Step 2(b) here. You can add more than six. The more controlled variables you have, the better.





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

#### **BASED UPON MY QUESTION, I PREDICT THAT:**

F the		is	How the independent variable will be changed
	Independent Variable		How the independent variable will be changed
			(e.g. increased or decreased)
hen the		will	
	Dependent Variable		How the dependent variable will be affected
			(e.g. increased or decreased)
think this will I	hannen <b>because</b>		
		Level: 2	



Youth Science Canada Sciences jeunesse Canada

