

## USING THE SCIENTIFIC METHOD: IDENTIFY THE MYSTERY CANISTER

### **Purpose:**

To demonstrate your skills in using the scientific method to answer questions

### **Time Required:**

1-1.25 h (for a group of 24 students)

### **Materials:**

- Film canisters (24)
- Laboratory notebook
- Pencil
- Six mystery ingredients that are placed into 4 of the canisters

### **Procedures:**

1. Each student will select their own canisters
2. Go around the room and shake your canister and use sounds, weight to find your group.
3. Once you have found your group then you must devise a hypothesis of what is in your canister.

### **Hypothesis:**

My group hypothesizes that the contents of the canister are \_\_\_\_\_.

### **Experimental Testing:**

We tested our hypothesis by doing the following: (e.g., shaking, rolling, does it float?, is it magnetic?)

### **Final Outcome:**

Once you have tested your hypothesis look inside the canister and see if your hypothesis was correct

Were you right?