Watch the video. Then cut and paste in the steps in the scientific method into the boxes. Fill in important terms from the following list! *“What are the steps of the scientific method with Mr. Harris”* <https://www.youtube.com/watch?v=qoepMxUIDfQ>

Terms: *dependent, control group, controlled variables, graph, table, charts, model, materials*, independent, *procedure*

 **MUST BE TESTABLE!**

1.

 **Find new information**

**7. Communicate/share this
 information.**

The Scientific Method

2.

6.

 *Was your hypothesis supported or refuted?*

 *What did you learn?*



**WHAT YOU THINK WILL HAPPEN!**

**How are Results/Data presented?

\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_**

3.

*Educated Guess/prediction – response to question/solution to problem*

5.

4.

 **HOW WILL TEST YOUR PROPOSED
 EXPLANATION?**

 **OBSERVATION TYPES**

 **QUALITATIVE VS QUANTITATIVE**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ steps *followed to test hypothesis. Instructions to perform experiment.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_list of *equipment/tools required to complete experiment.*



**Variables:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*What you change in the experiment to observe what happens*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*What you measure or observe because of the change*

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (constants)

*What you keep the same to reduce sources of error!*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *No change made*

**Slide Show Responses:**

For the examples: Identify the variables in these investigations – Independent Variable; Dependent Variable(s); Controlled Variables (constants)

|  |  |  |  |
| --- | --- | --- | --- |
| **Examples** | **Independent Variable** | **Dependent Variable** | **Controlled Variables** |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |

**Cut out the steps of the scientific method and paste in appropriate boxes in the graphic organizer**

|  |  |  |  |
| --- | --- | --- | --- |
| **DESIGN & DO AN  EXPERIMENT** |  **HYPOTHESISIF ……. THEN…. STATEMENT** | **ASK A QUESTION BASED ON INITIAL OBSERVATIONS** |  **CONDUCT FURTHER  RESEARCH** |
| **COMMUNICATE RESULTS** |  **ANALYZE THE DATA** |  **WRITE A CONCLUSION**  |  |

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