

## The Scientific Method

### Definition:

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### I. Observations

- Use the \_\_\_\_\_ senses to \_\_\_\_\_ what you observe.
- Sometimes this can be \_\_\_\_\_ (other people's observations).

### II. Question

- Turn your \_\_\_\_\_ into questions.

### III. Hypothesis

- Your possible \_\_\_\_\_.
- Educated Guess
- "If ...then..."

### IV. Procedure

- List the \_\_\_\_\_ you need to follow and the \_\_\_\_\_ you will need to test your hypothesis.

### V. Experiment

- Carry out the \_\_\_\_\_.
- The \_\_\_\_\_ is the one thing that changes in the experiment. Everything else stays the \_\_\_\_\_.

### VI. Analyze

- Organize the \_\_\_\_\_ from the experiment.
- We use \_\_\_\_\_ and \_\_\_\_\_.

### VII. Conclusion

- Decide if the data \_\_\_\_\_ your hypothesis or \_\_\_\_\_.

### VIII. Communicate

- Share your \_\_\_\_\_ with other scientists.

Name \_\_\_\_\_

Period \_\_\_\_\_ Date \_\_\_\_\_

## The Scientific Method

Definition: A set of steps or procedures that you follow when conducting an experiment.

### **IX. Observations**

- Use the 5 senses to record what you observe.
- Sometimes this can be research (other people's observations).

### **X. Question**

- Turn your observations into questions.

### **XI. Hypothesis**

- Your possible explanation.
- Educated Guess
- "If ...then..."

### **XII. Procedure**

- List the steps you need to follow and the materials you will need to test your hypothesis.

### **XIII. Experiment**

- Carry out the procedure.

### **XIV. Analyze**

- Organize the data from the experiment.
- We use data tables and graphs.

### **XV. Conclusion**

- Decide if the data supports your hypothesis or not.

### **XVI. Communicate**

- Share your findings with other scientists.