



## **Scientific Method: Practice Activity**

**Directions:** Read the following descriptions of experiments and identify which part of the scientific method they show.

1. Bob is wondering what is the effect of different acids on the growth of bread mold.  
Step:
2. Angelina is looking through the graphs and charts of her experiment to find any errors made in her study of the effect of how color affects human memory.  
Step:
3. Tim thinks that if he rubs dirty coins with lime juice, water, and soda, that the lime juice will clean the coins more than the water and soda because it is more acidic.  
Step:
4. Henry sees that his hypothesis for his experiment of the effects of sugary drinks on teeth was supported by his data.  
Step:
5. Natalie is thinking of the effect of charcoal on water purification.  
Step:
6. Mandy added the different fertilizers, turned on the grow light, and began to measure the growth of her plants over a month-long period.  
Step:
7. Jillian said, if I add coffee grounds to the soil of my bean plants, then they will grow taller and faster than the plants without coffee, because the caffeine will stimulate them.  
Step:
8. Andrew opened up the science database and took notes on studies relevant to his question.  
Step:
9. Bethany made a graph showing the differences in growth between her plants.  
Step:



10. Julia decided her hypothesis was accepted, because red and blue light were the most effective colors of light for plant growth.

Step:



## **Answers**

1. Ask a question
2. Analyze data
3. Hypothesis
4. Report your data
5. Ask a question
6. Experiment
7. Hypothesis
8. Background research
9. Analyze data
10. Report your data