



Material Testing Lab

Week 1 — Wednesday | Properties of Materials

Today's Experiment

Today you will be a scientist and test different materials! Scientists use experiments to learn about the world. An experiment is a careful test to answer a question.

Before you start, you need to make a **hypothesis**. A hypothesis is an educated guess about what you think will happen. For example: "I think the paper towel will absorb more water than the plastic bag."

During your experiment, you will record your observations. After the experiment, you will share your **conclusions** — what you learned from your test.



Absorption Test

Materials needed: Paper towel, plastic bag, cotton cloth, aluminum foil, water, bowl

My Hypothesis:

Test each material. Drop 3 drops of water on each. Circle: Absorbed or Not Absorbed

Material	Absorbed / Not Absorbed	Observation Notes
Paper Towel	<i>Absorbed / Not Absorbed</i>	
Plastic Bag	<i>Absorbed / Not Absorbed</i>	
Cotton Cloth	<i>Absorbed / Not Absorbed</i>	
Aluminum Foil	<i>Absorbed / Not Absorbed</i>	

Results Chart

Color in the boxes based on your results:

Material	Absorbed Water (color blue)	Did Not Absorb (leave white)
Paper Towel		
Plastic Bag		
Cotton Cloth		
Aluminum Foil		

Flexibility Test

Test these items: ruler, spoon, straw, pipe cleaner, coin, rubber band

Item	Flexible or Rigid?	How far did it bend?
Ruler		_____
Spoon		_____
Straw		_____
Pipe Cleaner		_____
Coin		_____
Rubber Band		_____



Experiment Conclusion

1. Which material absorbed the most water?

2. Which material was the most flexible?

3. Was your hypothesis correct? Explain.

4. What would you like to test next? Why?



Draw Your Favorite Test
