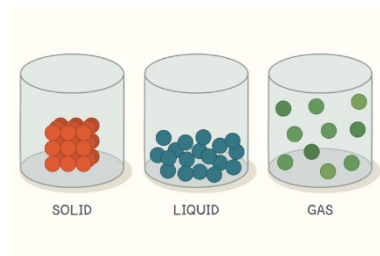


Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_



# Properties of Matter

## Pre- Lab Questions

1. What are 3 common phases of matter?
  
  
  
  
  
  
  
  
  
  
2. Give two examples of each phase of matter.

## Problem:

How can the properties of a material be used to classify it as a solid, liquid, or a gas?

## Materials:

Graduated cylinder (10mL)	4% Borax Solution	4% PVA solution
Plastic cup	goggles	wooden stirrer

## Procedure:

1. Obtain a plastic cup with PVA solution from your instructor.
2. Using the graduated cylinder measure approximately 10mL of Borax solution.
3. Add the borax solution to your plastic cup, begin stirring with your wooden stirrer. Record your observations below. Continue to stir for about 2 minutes. What is the consistency of the material?

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4. Transfer the material to your hand, shape it into a ball, put it back into its cup and notice what happens to the shape. Place the material on the benchtop and observe what happens to your material. Record your observations below.

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5. Place your material in a Ziploc bag and label with your name and hour. Give your bag to the instructor for grading.

## Analysis Questions

1. Is your new material most like a gas, a liquid, or a solid? \_\_\_\_\_

2. What other materials have you seen that have similar properties to this one? \_\_\_\_\_

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3. Describe the closeness of the particles of matter in the new material you created. \_\_\_\_\_

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4. Considering the flow of the new material, how would you rate the strength of the attraction among its particles. \_\_\_\_\_

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