

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### **Classifying Matter Rotation Lab**

During this lab, you will be making observations about 7 different substances. Use what you have learned and record your data in the table below. For each substance, record the name, symbol, and color. Then, decide whether it is a pure substance or mixture and circle the correct classification. Finally, determine the state of matter (solid, liquid, gas) for each substance.

#### **Data**

<b>Name of Substance</b>	<b>Symbol or Formula (if given)</b>	<b>Color</b>	<b>Is it a pure substance.... only if YES, circle one.</b>	<b>Is it a mixture.... only if YES circle one.</b>	<b>Is it a solid, liquid, or gas?</b>
			Element or Compound	Homogeneous or Heterogeneous	
			Element or Compound	Homogeneous or Heterogeneous	
			Element or Compound	Homogeneous or Heterogeneous	
			Element or Compound	Homogeneous or Heterogeneous	
			Element or Compound	Homogeneous or Heterogeneous	
			Element or Compound	Homogeneous or Heterogeneous	
			Element or Compound	Homogeneous or Heterogeneous	

#### **Questions**

1. Looking at the symbols and formulas column, what do all the pure substances have in common that the mixtures do not?

---

---

---

---

2. How were you able to tell the difference between a homogeneous mixture and a heterogeneous mixture?

---

---

---

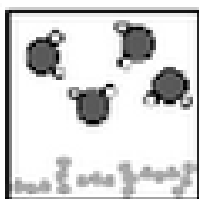
---

3. For each model below state whether it is a

A. solid, liquid or gas

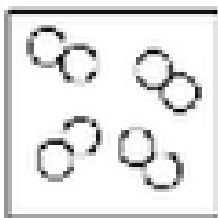
B. element, compound, homogeneous, or heterogeneous

**Be sure to include justification (*because* \_\_\_\_\_) for each one of your answers!**



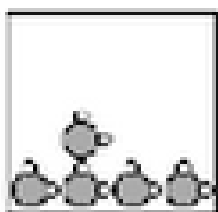
A. \_\_\_\_\_ *because* \_\_\_\_\_.

B. \_\_\_\_\_ *because* \_\_\_\_\_.



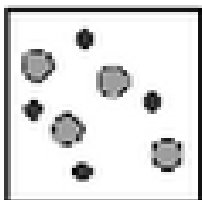
A. \_\_\_\_\_ *because* \_\_\_\_\_.

B. \_\_\_\_\_ *because* \_\_\_\_\_.



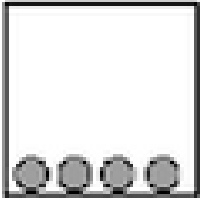
A. \_\_\_\_\_ *because* \_\_\_\_\_.

B. \_\_\_\_\_ *because* \_\_\_\_\_.



A. \_\_\_\_\_ *because* \_\_\_\_\_.

B. \_\_\_\_\_ *because* \_\_\_\_\_.



A. \_\_\_\_\_ *because* \_\_\_\_\_.

B. \_\_\_\_\_ *because* \_\_\_\_\_.