

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

**Chemistry: Classifying Matter**

Classify each of the materials below. In the center column, state whether the material is a **pure substance** or a **mixture**. If the material is a pure substance, further classify it as either an **element** or **compound** in the right column. Similarly, if the material is a mixture, further classify it as **homogeneous** or **heterogeneous** in the right column. Write the entire word in each space to earn full credit.

<i>Material</i>	<i>Pure Substance or Mixture</i>	<i>Element, Compound, Homogeneous, Heterogeneous</i>
concrete		
sugar + pure water (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> + H <sub>2</sub> O)		
iron filings (Fe)		
limestone (CaCO <sub>3</sub> )		
orange juice (w/pulp)		
Pacific Ocean		
air inside a balloon		
aluminum (Al)		
magnesium (Mg)		
acetylene (C <sub>2</sub> H <sub>2</sub> )		
tap water in a glass		
soil		
pure water (H <sub>2</sub> O)		
chromium (Cr)		
Chex mix		
salt + pure water (NaCl + H <sub>2</sub> O)		
benzene (C <sub>6</sub> H <sub>6</sub> )		
muddy water		
brass (Cu mixed with Zn)		
baking soda (NaHCO <sub>3</sub> )		