

Name: _____

WS 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.

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