Classification of Matter 2	Name:	
		_

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 <u>pure substance</u>, further classify it as either an **element** or **compound** in the right column.
- 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.

Matarial	Pure Substance	→ Element or Compound			
<u>Material</u>	Mixture	Homogeneous or Heterogeneous			
Laundry detergent (white & blue crystals)					
sugar + pure water $(C_{12}H_{22}O_{11} + H_2O)$					
iron filings (Fe)					
limestone (CaCO ₃)					
orange juice (water and pulp)					
Pacific Ocean (Water and Salt)					
air					
aluminum (Al)					
magnesium (Mg)					
acetylene (C ₂ H ₂)					
tap water in a glass					
pure water (H ₂ O)					
soil					
chromium (Cr)					
baking soda (NaHCO ₃)					
salt + pure water (NaCl + H ₂ O)					
benzene (C ₆ H ₆)					
muddy water					
brass (Cu mixed with Zn)					
Pizza					
Hydrocloric acid (HCl)					

Classification	of Matter 2
Classification	UI Matter Z

Name:			

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 <u>pure substance</u>, further classify it as either an **element** or **compound** in the right column.
- 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.

W. C. L.	Pure Substance	→ Element or Compound			
<u>Material</u>	Mixture	Homogeneous or Heterogeneous			
Laundry detergent (white & blue crystals)	Mixture	Heterogeneous			
sugar + pure water $(C_{12}H_{22}O_{11} + H_2O)$	Mixture	Homogeneous			
iron filings (Fe)	Pure substance	Element			
limestone (CaCO ₃)	Pure substance	Compound			
orange juice (water and pulp)	Mixture	Heterogeneous			
Pacific Ocean (Water and Salt)	Mixture	Homogeneous			
air	Mixture	Homogeneous			
aluminum (Al)	Pure substance	Element			
magnesium (Mg)	Pure substance	Element			
acetylene (C ₂ H ₂)	Pure substance	Compound			
tap water in a glass	Mixture	Homogeneous			
pure water (H ₂ O)	Pure substance	Compound			
soil	Mixture	Heterogeneous			
chromium (Cr)	Pure substance	Element			
baking soda (NaHCO ₃)	Pure substance	Compound			
salt + pure water (NaCl + H ₂ O)	Mixture	Homogeneous			
benzene (C ₆ H ₆)	Pure substance	Compound			
muddy water	Mixture	Heterogeneous			
brass (Cu mixed with Zn)	Mixture	Homogeneous			
Pizza	Mixture	Heterogeneous			
Hydrocloric acid (HCl)	Pure substance	Compound			