

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

**Classify each as one of the following: element (E), compound (C), heterogeneous mixture (Hetero), homogeneous mixture (Homo)**

Beaker of distilled water (H <sub>2</sub> O)	
Beaker of Lake Ontario water	
Balloon filled with air	
Thermometer full of mercury	
Tank of carbon dioxide (CO <sub>2</sub> )	
Glass of Kool-Aid	
Piece of copper wire	
Slab of concrete	
Slab of iron	
Bowl of chicken noodle soup	
Salt water	
Milk	
Pepperoni Pizza	
Carbon	
Air	
Table salt	
Sugar dissolved in water	
Granite	
Oxygen	
Sand in water	

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**For the following, use the same classifications as page 1 (some of these may have more than one answer though!)**

Cannot be decomposed by chemical means	
Contains two or more elements	
Can be separated by filtration	
Can be separated by distillation	
Cannot be separated by physical means	
Composed of pure matter	
Two liquids mixed at the molecular level	
Has a consistent density throughout the sample	
Can be separated by chromatography	
Properties stay the same when broken apart into its simplest form	
Something with varying boiling points throughout	