

ELEMENTS, COMPOUNDS, AND MIXTURES

WORKSHEET

Read each description and determine whether it is a pure substance or a mixture. Then, further classify the material as an element, a compound, a homogeneous mixture, or a heterogeneous mixture.

Material	Pure Substance or Mixture?	Further Classification
Chocolate syrup added to milk		
Copper wiring		
Air		
Helium in a balloon		
Sugar		
Sugar dissolved in coffee		
Diamond		
Water from a tap		
Distilled Water		
Salt dissolved in water		
Muddy Water		
Brass		
Iron fillings		
Helium		
Concrete		

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Answers

Material	Pure Substance or Mixture?	Further Classification
Chocolate syrup added to milk	Mixture	Homogenous Mixture
Copper wiring	Pure Substance	Element
Air	Mixture	Homogenous Mixture
Helium in a balloon	Pure Substance	Element
Sugar	Pure Substance	Compound
Sugar dissolved in coffee	Mixture	Homogenous Mixture
Diamond	Pure Substance	Element
Water from a tap	Mixture	Homogenous Mixture
Distilled Water	Pure Substance	Element
Salt dissolved in water	Mixture	Homogenous
Muddy Water	Mixture	Heterogenous
Brass	Mixture	Homogenous
Iron fillings	Pure Substance	Element
Helium	Pure Substance	Element
Concrete	Mixture	Heterogenous