

Name:

Date:

Pd:

Basic Classification of Matter in Chemistry

Elements	Heterogeneous Mixtures
Made up of: _____ Chemically Bonded? Yes or No	Made up of: _____ Chemically Bonded? Yes or No
Compounds	Homogeneous Mixtures (Solutions)
Made up of: _____ Chemically Bonded? Yes or No	Made up of: _____ Chemically Bonded? Yes or No

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Techniques for Separating Mixtures:

Technique:	Used to Separate...	Equipment Needed:	Example:
Filtration			Mixture of Sand and Water
Magnetism			Mixture of Iron and Sand
Evaporation			Solution of Salt and Water
Distillation			Mixture of two liquids with different boiling points

Practice:

- Classify each material below as a pure substance or a mixture. If it is a pure substance, classify it as either an element or a compound. If it is a mixture, classify it as either a homogeneous mixture (solution) or a heterogeneous mixture and identify how you could separate the pure substances!

Material	Pure Substance or Mixture?	Additional Classification / Separation Techniques
Table salt		
Block of Iron		
Water and Copper cubes		
Sugar water		
Water and Rubbing Alcohol		