Name: Date:

MIXTURES AND SOLUTIONS

Mixtures: different materials are placed together, but each material in the mixture keeps its own properties (ex. fruit salad)

Solutions: mixture in which substances are spread out evenly and will not settle (ex. salt water)

Directions: Determine whether each substance is a mixture or a solution.

Substance	Mixture or Solution
Cereal and Milk	
Cup of Coffee	
Oil and Water	
Sand in Water	
Salad	
Kool Aid	
Trail Mix	
Fruit Salad	
Bag of Coins	
Pop	
Sugar Water	
Lemonade	
Salt Water	

Name: Date:

SEPARATION TECHNIQUES

Match the separation technique with the correct definition:

A. A process used to separate a solid from a liquid using a porous material.

B. The process of separating substances based on their boiling points.

C. The technique of separating mixtures by passing them through a medium where components move at different rates.

D. The separation of a solid-liquid mixture by pouring the liquid into another container, leaving the solid behind.

E. A method that uses a machine to spin mixtures and separate components by density.

F. A process used to separate magnetic materials from a mixture using a magnet.

G. The process of separating larger particles from smaller ones using a mesh.

H. The process of heating a liquid until it turns into vapor, leaving behind solid components.

1. Filtration

2. Distillation

3. Chromatography

4. Centrifugation

5. Decantation

6. Evaporation

7. Magnetic Separation

8. Sieving

Think about what is THE BEST WAY to separate these mixtures. Then, write "**filtration**", "**evaporation**", "**distillation**" or "**magnet separation**".

Pebbles+water:

Water+ink:

Paper clips+rubber bands:

Alcohol+water:

Salt+water:

Petrol+water:

Cocoa+milk:

Sand+water:

Dirty water:

Nails+wood:

LIVEWORKSHEETS