

Mixture Match

The materials below are all mixed up. Your job is to figure out how to separate them. State whether each mixture is a solution or a mechanical mixture. Then describe the procedure you would use to separate it. List the steps and explain why they work. Refer to Table F (Solubility Guidelines), Table G (Solubility Curves), Table S (Properties of Selected Elements), and/or your textbook for information to assist you.

Mixture	Mechanical <i>or</i> Solution	Separation Procedure
$\text{Ba}_3(\text{PO}_4)_2(s)$ and water		
$\text{CaSO}_4(s)$ and $\text{LiNO}_3(s)$		
$\text{NaHCO}_3(s)$ and water		
black ink		
Alcohol and water		