

Experimenting with Mixtures, Compounds, and Elements

Chemical Substitution, Lesson One

In EMCE Inquiry 1.8, lead nitrate and sodium iodide have been replaced by magnesium sulfate and sodium carbonate. There should not be any lead nitrate or sodium iodide in your kit. See Prep notes below.

Prep Notes: See pgs. 3-3C (TE). Use the following substitutions for Inquiry 8.1, pg. 3-C:

- Step 1: Mix the magnesium sulfate solution by adding 25 g of magnesium sulfate to 250 mL of water. Place 100 mL of solution in each of the two 125 mL bottles labeled “Solution G.”
- Step 2: Mix the sodium carbonate solution by adding 25 g of sodium carbonate to 250 mL of water. Place 100 mL of solution in each of the two 125 mL bottles labeled “Solution H.”
- Step 3 is unaltered.
- This substitution does not change the student directions.
- To dispose of the mixture, throw the solid precipitate in the trash can and pour the liquid down the drain and flush with water for 1 minute.