

Name: _____ Class: _____ Date: _____

Where's the Evidence?

Day Three: Making Milk

Because today is an early day, there is no Pre-Lab to complete. Please gather materials, complete the lab, and then begin the Post-Lab Questions. All lab materials (Pages 304-310) will be graded on Monday.

Goal:

Observe what happens when calcium chloride (ice melt) is mixed with sodium carbonate (washing soda).

Materials:

- calcium chloride (CaCl_2) flakes
- a stirring rod
- goggles
- a funnel
- sodium carbonate (Na_2CO_3) powder
- a blue scoop
- three empty beakers

Procedure:

1. Observe calcium chloride and sodium carbonate. Write down observations.
2. Fill two beakers with 80 ml of water.
3. Measure out 5 ml of calcium chloride. Add it to the first beaker; stir until dissolved.
4. Measure out 5 ml of sodium carbonate. Add it to the second beaker; stir until dissolved.
5. Observe both liquids. Write down observations.
6. Pour both liquids into your third beaker.
7. Observe resulting changes. Write down observations.
8. Let the liquid settle for two minutes. Observe and write down observations.

**Don't drink it; it's not actually milk!*

Observations:

Substance	Observations (flakes and powder)	Observations (after dissolving)	Observations (during reaction)	Observations (after reaction)
calcium chloride (CaCl_2)				
sodium carbonate (Na_2CO_3)				

Post-Lab Conclusions:

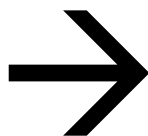
1. Below is the chemical formula for today's reaction (with one compound missing). Fill in the formula of the missing compound.



2. What is the "common name" for the new compound?

**See Page 205 for a hint.*

3. Draw a before-and-after picture of the reaction below.



4. What were the reactants and products in today's reaction?

**Use common names!*

5. Do you think dissolving the flakes/powder in the water counts as a chemical reaction?

6. Which of the four clues told us that the mixing of the two liquids *was*, in fact, a chemical reaction?

7. Classify today's reaction as synthesis, decomposition, replacement, or none.