

## LIMEWATER INVESTIGATION B

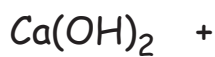
### Thinking about limewater

1. Limewater is calcium hydroxide dissolved in water. The chemical formula for calcium hydroxide is  $\text{Ca}(\text{OH})_2$ . Use circles labeled with atomic symbols to draw what you think a representation of one particle of calcium hydroxide might look like.



2.
  - a. Use atom tiles to make representations of the particles that you think reacted.
  - b. Rearrange the atoms to figure out what the white precipitate is.
  - c. Draw representations of the reactants and the products using labeled circles.  
(HINT: The white powder does not dissolve in water.)

3. Write the limewater reaction using chemical formulas. Write the names of the reactants and products under the formulas.



Calcium  
hydroxide

4. Did new substances form? \_\_\_\_\_ If yes, what are they? \_\_\_\_\_
5. Did new atoms form? \_\_\_\_\_ If yes, what are they? \_\_\_\_\_
6. Did new elements form? \_\_\_\_\_ If yes, what are they? \_\_\_\_\_