

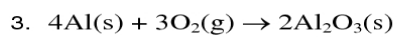
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## Chemical Changes in Matter – Ch. 16

For each of the following reactions, replace words with formulas and symbols. Be sure to include coefficients and physical states.

1. Two atoms of solid lithium react with two molecules of liquid water to produce two units of aqueous lithium hydroxide and one molecule of hydrogen gas.
2. When heated, a unit of solid calcium carbonate yields a unit of solid calcium oxide and a molecule of carbon dioxide gas.

For the following reaction, replace formulas and symbols with words. Be sure to account for the coefficients and physical states. (Refer to #1 & #2 as examples.)



4. Draw a diagram representing the reaction in #3. Differentiate between elements using labels or different colors.
5. Does your diagram in #4 demonstrate conservation of mass? Explain how.