

Assignment: Word Equations

1. Examine the following word equation.

propane + oxygen \longrightarrow carbon dioxide + water vapour

- List the reactants in this equation.
- List the products in this reaction.
- What is the purpose of the arrow in the word equation?

2. Write word equations for the following reactions:

- CaCl_2 and Na_2SO_4 react to produce CaSO_4 and NaCl
- BaCO_3 reacts when heated to produce BaO and CO_2
- AgNO_3 reacts with KCl to produce AgCl and KNO_3

chemical

3. Write ~~word~~ equations to represent the following chemical reactions:

- Carbon dioxide and water are produced in human cell respiration. The reactants are sugar (glucose) and an important gas that humans need to survive (you must figure this out on your own).
If you have forgotten the formula for glucose, see the lesson 10 where it is used in the lesson.
- Stalactites form in caves when calcium bicarbonate reacts to form calcium carbonate, water, and carbon dioxide gas. (This is a challenging question. Make sure you refer to your table of common polyatomic ions and think carefully.)