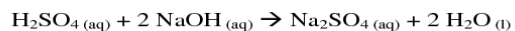


**Stoichiometry 4**  
**Reactants, Products, and the Mole Ratio –**  
**Perfect Together**

**INFORMATION**

Consider the following balanced chemical equation representing an acid-base neutralization reaction:



The coefficients in the reaction denote the integer molar quantities required for this reaction to go to **completion** (all reactants are consumed and converted to products). In this reaction, for each mole of acid put into the reaction, 2 moles of base are required consume it all. The resulting products will be 1 mole of salt and 2 moles of water.

The ratio of products of one substance in a reaction is required to produce or consume another