# Chemistry 101
## Unit 7 – Outcomes

The student will be able to:

**1)** Given a chemical equation, develop "per expressions" from mole ratios among reactants and products as indicated by coefficients.

**2)** Given a chemical equation, or a reaction for which the equation is known, and the number of moles of one species in the reaction, calculate the number of moles of any other species.

**3)** Given a chemical equation, or a reaction for which the equation is known, and the number of moles of one species in the reaction, calculate the number of grams of any other species.

**4)** Given a chemical equation, or a reaction for which the equation is known, and the number of grams of one species in the reaction, calculate the number of moles of any other species.

**5)** Given a chemical equation, or a reaction for which the equation is known, and the number of grams of one species in the reaction, calculate the number of grams of any other species.

**6)** Define the following terms as they apply to chemical reactions:
    theoretical yield
    actual yield
    % yield

**7)** Given the actual yield and information from which the theoretical yield .can be calculated, determine the % yield.