# Open Chemistry Online – Post Quiz #6 (OpenStax Ch: 4.2)

The following questions refer to the combination of **copper (II) nitrate** with **sodium hydroxide**.

1. State the chemical formulas for both reactants - be sure to include the state of each reactant when placed in water.
2. When solutions of these two ionic compounds are combined, the mixed solution becomes cloudy. You conclude (correctly) that a reaction has occurred!

Classify the reaction that has occurred. Then, specify the states of all products/reactants and balance the reaction.

1. State the net ionic reaction.
2. If 0.250 L of 0.500 M copper (II) nitrate is combined with excess sodium hydroxide, calculate the mass of product that is formed.