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Honors Chemistry Name _____ Period _____

Net Ionic Equation Worksheet

READ THIS: When two solutions of ionic compounds are mixed, a solid may form. This type of reaction is called a **precipitation reaction**, and the solid produced in the reaction is known as the **precipitate**. You can predict whether a precipitate will form using a list of solubility rules such as those found in the table below. When a combination of ions is described as insoluble, a precipitate forms. There are three types of equations that are commonly written to describe a precipitation reaction.

Molecular equation: The molecular equation shows each of the substances in the reaction as compounds with physical states written next to the chemical formulae. The complete ionic equation shows each of the **aqueous** compounds as separate ions. Insoluble substances are not separated and these have the symbol (s) written next to them. Water is also not separated and it has (l) written next to it. Notice that there are ions that are present on both sides of the reaction arrow \rightarrow that is, they do not react. These ions are known as **spectator ions** and they are eliminated from complete ionic equation by crossing them out. The remaining equation is known as the **net ionic equation**.

For example: The reaction of potassium chloride and lead(II) nitrate

Molecular Equation: $2KCl(aq) + Pb(NO_3)_2(aq) \rightarrow 2KNO_3(aq) + PbCl_2(s)$

Complete Ionic Equation: $2K^+(aq) + 2Cl^-(aq) + Pb^{2+}(aq) + 2NO_3^-(aq) \rightarrow 2K^+(aq) + 2NO_3^-(aq) + PbCl_2(s)$

Net Ionic Equation: $2Cl^-(aq) + Pb^{2+}(aq) \rightarrow PbCl_2(s)$

Particulate drawing:

Directions: Write balanced molecular, ionic, and net ionic equations for each of the following reactions. Assume all reactions occur in aqueous solution. Include states of matter in your balanced equation.

1. Sodium chloride and lead(II) nitrate

Molecular Equation:

Complete Ionic Equation:

Net Ionic Equation:

Particulate drawing:

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