

Name: _____

Date: _____

Types of Chemical Reactions (Part II): Single and Double Displacement

For each of the chemical reactions listed below, complete the following:

. The type of chemical reaction (single or double displacement)

 Balance the skeletal equation

1. Sulphuric acid reacts with iron (II) sulphide to produce iron (II) sulphate and hydrogen sulphide.

 Reaction type: _____

. Balance the skeletal equation: $\text{H}_2\text{SO}_4 + \text{FeS} \rightarrow \text{FeSO}_4 + \text{H}_2\text{S}$

2. An alkali metal such as sodium displaces hydrogen from water to form sodium hydroxide and hydrogen gas.

 Reaction type: _____

. Balance the skeletal equation: $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$

3. Valuable silver can be recovered from a solution of silver nitrate by adding copper to produce copper (II) nitrate and a silver precipitate.

 Reaction type: _____

. Balance the skeletal equation: $\text{AgNO}_3 + \text{Cu} \rightarrow \text{Cu}(\text{NO}_3)_2 + \text{Ag}$

4. If we were to add table salt to a solution of silver nitrate we would produce sodium nitrate solution and silver chloride.

 Reaction type: _____

. Balance the skeletal equation: $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{NaNO}_3 + \text{AgCl}$

5. Potassium iodide reacts with lead (II) sulphate to produce potassium sulphate and lead (II) iodide.

 Reaction type: _____

. Balance the skeletal equation: $\text{KI} + \text{PbSO}_4 \rightarrow \text{K}_2\text{SO}_4 + \text{PbI}_2$