**Chemistry 1** Name:

*Routing Out Common Reaction Mistakes* Date:

*Practice Assignment* Hour:

Read the Question. Look at the student response. Assess what is incorrect (if anything) and give a final correct representation of the chemical reaction from the question.

1. **Question: Zinc metal reacts with silver nitrate to produce……**

 Student Response: Zn + AgNO3 🡪 ZnAg + NO3

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Calcium Oxide reacts with sulfur dioxide to produce calcium sulfite**

 Student Response: CaO2 + SO2 🡪 CaSO4

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Magnesium reacts with hydrochloric acid to form……..**

 Student Response: Mg + HCl 🡪 MgCl + H

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Potassium iodide reacts with lead (II) nitrate to form…..**

 Student Response: 2KI + Pb2NO3 🡪 K2Pb + INO3

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Magnesium phosphate reacts with cesium sulfide to produce……**

 Student Response: Mg3(PO4)2 + Cs2S 🡪 Mg3S + Cs2(PO4)2

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Tricarbon octahydride (Propane) reacts with oxygen gas to produce carbon dioxide and water.**

 Student Response: C3H8 + 10O 🡪 3CO2 + 4H2O

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Sulfuric acid reacts with beryllium hydroxide to produce**

 Student Response: H2S + Be(OH)2 🡪 H2OH2 + SBe

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Potassium chlorate is heated to produce potassium chloride and oxygen gas.**

 Student Response: 2KClO3 🡪 2KCl +3O2

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Fluorine gas reacts with gold (III) bromide……**

 Student Response: 3F + AuBr3 🡪 Au + 3FBr

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**

1. **Question: Cobalt (II) hydroxide reacts aluminum phosphate**

 Student Response: Co(OH)2 + AlPO4 🡪 Co(OH)2 + AlPO4

 What is incorrect?

 **Absolute Correct Response and Reaction Type:**