

For each reaction, write the proper products. Recall  $AB + CD \rightarrow AD + CB$ , you MUST type the answers in that order with AD being first or it will mark you wrong.

	$\text{Na}_2\text{CO}_3$	$\text{NaCl}$	$\text{NaOH}$	$\text{Na}_2\text{SO}_4$	$\text{Na}_3\text{PO}_4$	$\text{LiNO}_3$
$\text{CaCl}_2$ *Example only of AD and CB	$\text{CaCO}_3$ + $\text{NaCl}$	+	+	+	+	+
$\text{CuSO}_4$	+	+	+	+	+	+
$\text{FeCl}_3$	+	+	+	+	+	+
$\text{Pb}(\text{NO}_3)_2$	+	+	+	+	+	+
$\text{KI}$	+	+	+	+	+	+
$\text{AgNO}_3$	+	+	+	+	+	+

1. Which of the ions that you are going to use in the lab would be considered cations?

$\text{Ag}^{1+}$   $\text{Ca}^{2+}$   $\text{Cl}^{1-}$   $\text{CO}_3^{2-}$   $\text{Cu}^{2+}$   $\text{Fe}^{3+}$   $\text{I}^{1-}$   
 $\text{Na}^{1+}$   $\text{OH}^{1-}$   $\text{Pb}^{2+}$   $\text{SO}_4^{2-}$

2. Which of the ions that you are going to use in the lab would be considered anions?

$\text{Ag}^{1+}$   $\text{Ca}^{2+}$   $\text{Cl}^{1-}$   $\text{CO}_3^{2-}$   $\text{Cu}^{2+}$   $\text{Fe}^{3+}$   $\text{I}^{1-}$   
 $\text{Na}^{1+}$   $\text{OH}^{1-}$   $\text{Pb}^{2+}$   $\text{SO}_4^{2-}$

3. Which ion(s) commonly formed precipitates?

$\text{Ag}^{1+}$   $\text{Ca}^{2+}$   $\text{Cl}^{1-}$   $\text{CO}_3^{2-}$   $\text{Cu}^{2+}$   $\text{Fe}^{3+}$   $\text{I}^{1-}$   
 $\text{Na}^{1+}$   $\text{OH}^{1-}$   $\text{Pb}^{2+}$   $\text{SO}_4^{2-}$

4. Which ion(s) did not give a visible reaction?

$\text{Ag}^{1+}$   $\text{Ca}^{2+}$   $\text{Cl}^{1-}$   $\text{CO}_3^{2-}$   $\text{Cu}^{2+}$   $\text{Fe}^{3+}$   $\text{I}^{1-}$   
 $\text{Na}^{1+}$   $\text{OH}^{1-}$   $\text{Pb}^{2+}$   $\text{SO}_4^{2-}$