

<b>Activity Series of Metals</b>	<u>Li</u>	Lithium	Most Reactive ↑ ↓ Least Reactive	F <sub>2</sub>	Fluorine
	K	Potassium		Cl <sub>2</sub>	Chlorine
	Ba	Barium		Br <sub>2</sub>	Bromine
	Sr	Strontium		I <sub>2</sub>	Iodine
	Ca	Calcium			
	Na	Sodium			
	Mg	Magnesium			
	Al	Aluminum			
	Mn	Manganese			
	Zn	Zinc			
	Cr	Chromium			
	Fe	Iron			
	Cd	Cadmium			
	Co	Cobalt			
	Ni	Nickel			
	Sn	Tin			
	Pb	Lead			
	H	Hydrogen			
	Sb	Antimony			
As	Arsenic				
Bi	Bismuth				
Cu	Copper				
Hg	Mercury				
Ag	Silver				
Pt	Platinum				
Au	Gold				
					<b>Activity Series of NonMetals</b>

### Single Replacement Reactions

1. Which of the following equations represents a single replacement reaction? Circle your choice.

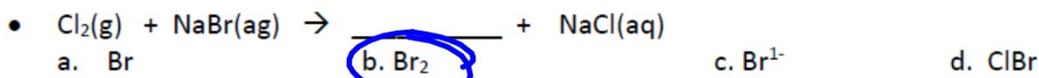
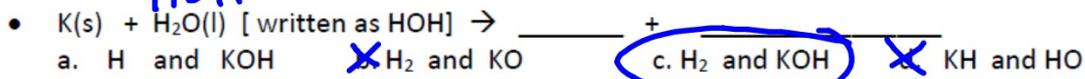
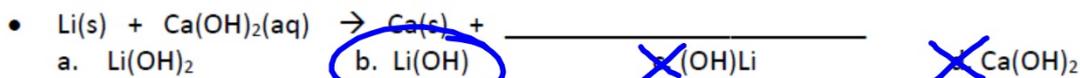
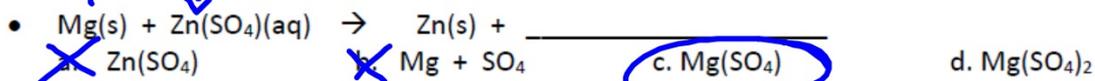
- ~~a.~~  $\text{Be}(\text{OH})_2 \rightarrow \text{BeO}(\text{s}) + \text{CO}_2(\text{g})$  **Decomp**  
**b.**  $\text{Na}(\text{s}) + \text{HCl}(\text{l}) \rightarrow \text{H}_2(\text{g}) + \text{NaCl}(\text{aq})$  **SR**  
~~c.~~  $\text{H}_2 + \text{Cl}_2 \rightarrow 2 \text{HCl}$  **syn**  
~~d.~~  $\text{AgNO}_3(\text{aq}) + \text{KI}(\text{aq}) \rightarrow \text{AgI}(\text{s}) + \text{KNO}_3(\text{aq})$  **DR**

2. Use the activity series of Metals to decide if a reaction will occur.

- a.  $\text{Al}(\text{s}) + \text{NiSO}_4(\text{aq}) \rightarrow$  **Reaction will occur** / No reaction (circle your choice)  
 b.  $\text{Zn}(\text{s}) + \text{MgBr}_2(\text{aq}) \rightarrow$  **Reaction will occur** / **No reaction** (circle your choice)  
 c.  $\text{Li}(\text{s}) + \text{H}_2\text{O}(\text{l}) \rightarrow$  **Reaction will occur** / No reaction (circle your choice)

**HOH**

3. Multiple Choice: For each of the following single replacement reactions, complete the equation by circling the letter that identifies the correct missing product(s).



4. Each reaction will occur. Predict products with correct formulas for the following single replacement reactions.

