

### CONCEPT: OXIDE REACTIONS

- Oxides, peroxides, and superoxides of groups 1A and 2A are reactive compounds.
  - React with water to produce \_\_\_\_\_.
  - React with acids to produce \_\_\_\_\_ and \_\_\_\_\_.

Oxide Reactions	
Reaction with Water	Reaction with Acids
$\text{Li}_2\text{O (s)} + \text{H}_2\text{O (l)} \longrightarrow \_\_\text{LiOH (aq)}$	$\text{CaO (s)} + \_\_\text{HCl (aq)} \longrightarrow \text{CaCl}_2\text{ (aq)} + \text{H}_2\text{O (l)}$

**EXAMPLE:** Complete and balance the following equation:



**PRACTICE:** Write a balanced equation to show what happens when strontium oxide dissolves in water.

**PRACTICE:** Write a balanced equation for the reaction of magnesium oxide with aqueous hydrochloric acid.