

# Acids and Bases Worksheet

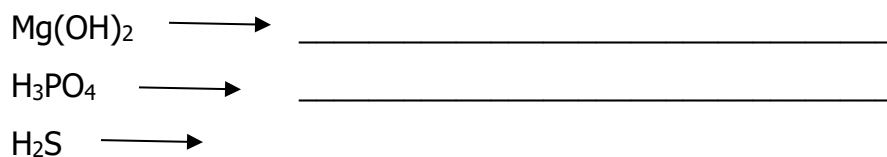
1. Indicate if each compound is an acid or base and name it.

	Acid/Base?	Name		Acid/Base?	Name
HNO <sub>3</sub>	_____	_____	H <sub>2</sub> CO <sub>3</sub>	_____	_____
Mg(OH) <sub>2</sub>	_____	_____	HF	_____	_____
H <sub>3</sub> PO <sub>4</sub>	_____	_____	Fe(OH) <sub>3</sub>	_____	_____

2. Write the formula for each of the following acids/bases:

hydrochloric acid	_____	hydrochloric acid	_____
aluminum hydroxide	_____	sodium hydroxide	_____
lithium hydroxide	_____	calcium hydroxide	_____
sulfuric acid	_____	sulfurous acid	_____

3. Write chemical equations showing how each of the following dissolves (ionizes) in water:



4. For each reaction type, complete the equations and balance them.

a) Making Acids from Non-metal Oxides

General form: *non-metal oxide + water*     $\longrightarrow$     *acid*



b) Making Bases from Metal Oxides:

General form: *metal oxide + water*     $\longrightarrow$     *base*



c) Reactions of Acids 1: Reaction with Metals

General form: *metal + acid*     $\longrightarrow$     *salt + hydrogen*



d) Reactions of Acids 2: Reaction with Carbonates

General form: *acid + carbonate*     $\longrightarrow$     *salt + water + carbon dioxide*

