Section 5.2

Use with textbook pages 234–239.

Recognizing acids, bases, and salts

1. State whether each of the following is an acid, a base, or a salt.



Section 5.2

Use with textbook pages 234–239.

Acid-base neutralization reactions

acid + base \rightarrow water + salt

1. Complete and balance the following neutralization reactions.



2. Complete and balance the following acid-base neutralization reactions. Include both the word equation and the formula.



Use with textbook pages 237.

Metal oxides and non-metal oxides

- 1. What element reacts with a metal or a non-metal to form an oxide?
- 2. What is a chemical compound that contains a metal chemically combined with oxygen? _____
- 3. What is a chemical compound that contains a non-metal chemically combined with oxygen?
- 4. What happens to a solution when a metal oxide dissolves in water?
- 5. What happens to a solution when a non-metal oxide dissolves in water?
- 6. What is formed when a metal oxide reacts with water?
- 7. What is formed when a non-metal oxide reacts with water?
- 8. Classify each of the following as a metal oxide or a non-metal oxide.

(a) Na ₂ O	(e) SO ₂
(b) B ₂ O ₃	(f) BeO
(c) NO ₂	(g) CIO

- (d) CaO _____ (h) Li₂O _____
- 9. Indicate whether an acid or a base will be produced.
 - (a) MgO + $H_2O \rightarrow$ _____
 - (b) $SO_3 + H_2O \rightarrow$ _____
 - (c) CaO + $H_2O \rightarrow$ _____
 - (d) $CO_2 + H_2O \rightarrow$ _____