**Balancing Handout Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Period \_\_\_\_\_\_\_\_**

Write the correct formulas and balance the equations.

1. lithium oxide + water → lithium hydroxide
2. lead(II) nitrate → lead(II) oxide + nitrogen dioxide + oxygen
3. gold(III) sulfide + hydrogen → gold + hydrosulfuric acid
4. mercury(I) carbonate → mercury + mercury(II) oxide + carbon dioxide
5. chlorine dioxide + water → chlorous acid + chloric acid
6. potassium oxide + carbon dioxide → potassium carbonate
7. manganese(IV) oxide + hydrochloric acid → manganese(II) chloride + water + chlorine
8. ammonium dichromate → water + chromium(III) oxide + nitrogen
9. ammonium chloride + calcium hydroxide → calcium chloride + ammonia + water
10. sulfuric acid + sodium bicarbonate → sodium sulfate + carbon dioxide + water
11. calcium phosphate + sulfuric acid → calcium sulfate + calcium dihydrogen phosphate
12. phosphoric acid + hydrochloric acid → phosphorus pentachloride + water
13. hydrochloric acid + potassium carbonate → potassium chloride + water + carbon dioxide
14. iron(III) oxide + hydrogen → iron + water
15. aluminum + oxygen → aluminum oxide
16. magnesium + nitrogen → magnesium nitride
17. potassium chlorate → potassium perchlorate + potassium chloride

