

## Unit 5 Study Guide

Decide whether each of the following are a Physical Property, Chemical Property, Physical Change, Chemical Change

- \_\_\_\_\_ 1. melting
- \_\_\_\_\_ 2. the freezing point of water is 0 degrees Celsius
- \_\_\_\_\_ 3. density
- \_\_\_\_\_ 4. flammable
- \_\_\_\_\_ 5. gasoline is burning in a car engine
- \_\_\_\_\_ 6. after being mixed baking soda and vinegar are forming bubbles
- \_\_\_\_\_ 7. iron will react if mixed with acid
- \_\_\_\_\_ 8. bread molding
- \_\_\_\_\_ 9. evaporating

Identify each of the following as synthesis, decomposition, single replacement, or double replacement.

- \_\_\_\_\_ 10.  $(\text{NH}_4)_2\text{SO}_4 + \text{Ba}(\text{NO}_3)_2 \rightarrow \text{BaSO}_4 + 2\text{NH}_4(\text{NO}_3)$
- \_\_\_\_\_ 11.  $6\text{KCl} + \text{Zn}_3(\text{PO}_4)_2 \rightarrow 3\text{ZnCl}_2 + 2\text{K}_3(\text{PO}_4)$
- \_\_\_\_\_ 12.  $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$
- \_\_\_\_\_ 13.  $2\text{NaCl} \rightarrow 2\text{Na} + \text{Cl}_2$
- \_\_\_\_\_ 14.  $2\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$
- \_\_\_\_\_ 15.  $\text{Mg} + 2\text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$
- \_\_\_\_\_ 16.  $2\text{Al} + 3\text{NiBr}_2 \rightarrow 2\text{AlBr}_3 + 3\text{Ni}$
- \_\_\_\_\_ 17.  $\text{HCl} + \text{Na}(\text{OH}) \rightarrow \text{NaCl} + \text{H}_2\text{O}$
- \_\_\_\_\_ 18.  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
- \_\_\_\_\_ 19.  $\text{Ag}(\text{NO}_3) + \text{KCl} \rightarrow \text{AgCl} + \text{K}(\text{NO}_3)$
- \_\_\_\_\_ 20.  $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
- \_\_\_\_\_ 21.  $\text{SO}_3 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_4$