

Chemical Reactions Worksheet

Directions: Balance the following chemical reactions using the given information. In addition, *classify* each chemical reaction. **Answers appear immediately following the problems.**

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1. Hypochlorous acid decomposes into water and dichlorine monoxide.

Reaction classification: _____

2. Acetic acid is burned.

Reaction classification: _____

3. Solid magnesium fluoride appears upon mixing magnesium chloride and sodium fluoride.

Reaction classification: _____

4. Phosphorus (P₄) and oxygen produce tetraphosphorus decaoxide.

Reaction classification: _____

5. Calcium and hydrochloric acid create a gas. Identify the gas through the balanced equation.

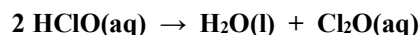
Reaction classification: _____

6. Calcium hydroxide is added to perchloric acid..

Reaction classification: _____

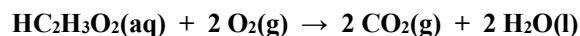
Answers to the Chemical Reactions Worksheet:

1. Hypochlorous acid decomposes into water and dichlorine monoxide.



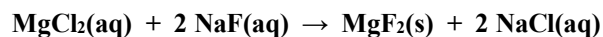
Classification: **Decomposition**

2. Acetic acid is burned.



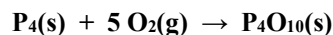
Classification: **Combustion / Burning**

3. Solid magnesium fluoride appears upon mixing magnesium chloride and sodium fluoride.



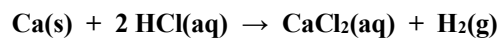
Classification: **Precipitation**

4. Phosphorus (P₄) and oxygen produce tetraphosphorus decaoxide.



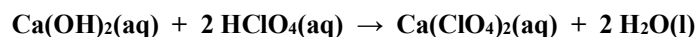
Classification: **Combination**

5. Calcium and hydrochloric acid create a gas. Identify the gas through the balanced equation.



Classification: **Single Replacement**

6. Calcium hydroxide is added to perchloric acid..



Classification: **Acid/Base**