

Descriptive Abbreviations

(_____) _____

(_____) _____

(_____) _____

(_____) _____

Determining State at Room Temperature

- All _____ are solids except for _____, which is a _____.
- Most _____ are _____ with these exceptions:
 - a) liquid - _____
 - b) solids - _____, _____, _____, _____, _____, and _____
- All _____ are solids.
- _____ compounds are _____, unless stated otherwise.
- _____ compounds are _____, unless stated otherwise.

When heated, solid mercury(II)oxide yields mercury and oxygen gas.

Classifying Reactions

1. Synthesis:

- _____ or _____ substances combine to form a more _____ substance.
- _____ → _____
- $\text{Fe (s)} + \text{_____} \rightarrow \text{_____}$
- $\text{H}_2\text{O (l)} + \text{_____} \rightarrow \text{_____}$

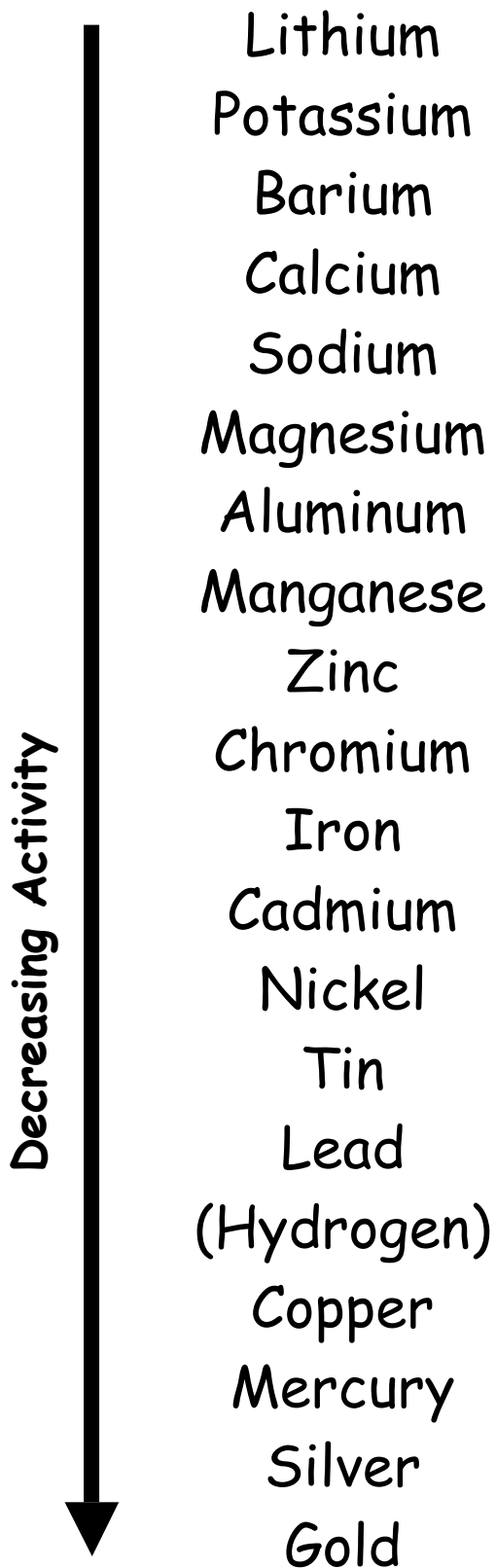
2. Decomposition

- A _____ substance is _____ into _____ or more _____ substances.
- $\text{AB} \rightarrow \text{_____}$
- $2\text{H}_2\text{O (l)} \rightarrow \text{_____} + \text{_____}$
- _____ → _____ + _____

3. Single Replacement

- A free _____ replaces a _____ element in a _____.
- $\text{A} + \text{BY} \rightarrow \text{_____} + \text{_____}$
- $\text{Zn (s)} + \text{_____} \rightarrow \text{_____} + \text{_____}$
- $2\text{Al (s)} + \text{_____} \rightarrow \text{_____} + \text{_____}$
- $\text{Cu (s)} + \text{MgCl}_2 \text{ (aq)} \rightarrow \text{_____}$
 - Activity Series: an _____ of elements in the order of their _____ to _____

Activity Series of Metals



4. Double Replacement

- The _____ of reacting _____ each other.
- Normally takes place in an _____.
- Also called _____ reactions
- $AX + BY \rightarrow$ _____ + _____
- $2KI (aq) +$ _____ \rightarrow _____ + _____
 - Precipitate
 - an _____
 - may be _____ in an equation by _____ or _____
- $NaCl (aq) +$ _____ \rightarrow _____ + _____

5. Combustion

- Involves the _____ of a substance with _____.
- Often called _____.
- The _____ of a _____ produces _____ and _____.
- $C_xH_y + O_2 \rightarrow$ _____ + _____
- $C_3H_8 (g) + 5O_2 (g) \rightarrow$ _____ + _____
- $CH_4 (g) +$ _____ \rightarrow _____ + _____

The Chemistry Quiz

CR1. _____ CR2. _____ 1. _____ 2. _____

3. _____ 4. _____ 5. _____