

Chemical Reactivity

Topic: Chemical Reactivity

Name: _____ Date: _____ Score: _____ / 15

Practice Questions

Circle the correct answer for each question.

1. What is a combination (synthesis) reaction?

- A) A reaction where a single compound breaks down into two or more simpler substances
- B) A reaction where two or more substances combine to form a single new compound
- C) A reaction where one element displaces another from a compound
- D) A reaction with no chemical change

2. What is a decomposition reaction?

- A) Two elements combining to form a compound
- B) A single compound breaking down into two or more simpler substances, often on heating
- C) An acid reacting with a base
- D) A metal reacting with oxygen only

3. What is a (single) displacement reaction?

- A) A more reactive element takes the place of a less reactive element in a compound
- B) Two compounds simply mix without reacting
- C) A compound breaks down into its elements
- D) Two acids react together

4. What is oxidation, in terms of electron transfer?

- A) The gain of electrons
- B) The loss of electrons
- C) The gain of protons
- D) The loss of neutrons

5. What is reduction, in terms of electron transfer?

- A) The loss of electrons
- B) The gain of electrons
- C) The loss of protons
- D) The gain of neutrons

6. What is the "reactivity series" of metals?

- A) A random list of metals with no scientific basis
- B) A list of metals arranged in order of decreasing chemical reactivity, used to predict how metals behave in reactions
- C) A list of metals ordered by price
- D) A list of only non-reactive metals

7. What two substances must be present together for iron to rust?

- A) Heat and light only
- B) Both oxygen and water (moisture)
- C) Only carbon dioxide
- D) Only nitrogen gas

8. What is the reddish-brown flaky substance formed when iron rusts?

- A) Iron sulfate
- B) Hydrated iron(III) oxide
- C) Iron carbonate
- D) Pure iron

Diagram

Study the diagram below.

Element 1	Element 2	Element 3	Element 4	Element 5
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Periodic trend: property increases/decreases left ? right across a period

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