



Chemical Changes

Multiple Choice Questions

Set 2

Tick **one** box.

1. What type of reaction takes place between a metal and oxygen?
 - A. displacement
 - B. neutralisation
 - C. oxidation
 - D. reduction

2. Which of the following occurs in a reduction reaction?
 - A. a large molecule is split into smaller molecules
 - B. gain of oxygen
 - C. loss of hydrogen
 - D. loss of oxygen

3. Which of the following is most likely to be found in the earth as the metal itself?
 - A. calcium
 - B. copper
 - C. gold
 - D. iron

4. Which gas is produced when an acid is neutralised by a metal carbonate?
 - A. carbon dioxide
 - B. hydrogen
 - C. nitrogen
 - D. oxygen

5. Which of the following words describes an aqueous solution with a pH of 7?
 - A. acid
 - B. alkali
 - C. base
 - D. neutral



6. What type of ion do aqueous solutions of alkalis contain?

- A. H^+
- B. H^-
- C. OH^+
- D. OH^-

7. A copper ion has the formula Cu^{2+} . A chloride ion has the formula Cl^- .
What is the chemical formula of copper chloride?

- A. $CuCl$
- B. $CuCl_2$
- C. Cu_2Cl
- D. $CuCl_3$

8. What is the name of the positive electrode in electrolysis?

- A. anode
- B. cathode
- C. diode
- D. geode

9. When an ionic compound is melted or dissolved in water, the ions are free to move about within the liquid or solution. What do we call these liquids or solutions?

- A. alkalis
- B. electrodes
- C. electrolytes
- D. halides

10. What is produced at the cathode in the electrolysis of molten lead bromide?

- A. bromine
- B. carbon
- C. hydrogen
- D. lead