

C5- Chemical Changes	Recall answers
1. Write the general word equation for the reaction between a metal and oxygen	Metal + oxygen \rightarrow metal oxide
2. Define oxidation	1. The addition of oxygen 2. The loss of electrons (HT)
3. Define reduction	1. The removal of oxygen 2. The gain of electrons (HT)
4. Write the general word equation for the reaction of a metal with an acid	Metal + acid \rightarrow metal salt + hydrogen
5. What is the name for the list of metals placed in an order based on reactions with oxygen, water and acid?	Reactivity series
6. Write the general word equation for the reaction of a group 1 metal with water	Metal + water \rightarrow metal hydroxide + hydrogen
7. How are metals less reactive than carbon extracted from their ore?	By reduction with carbon
8. Name the metal salt that is produced in a reaction with hydrochloric acid.	Metal chloride
9. Name the metal salt that is produced in a reaction with sulphuric acid.	Metal sulphate
10. Name the metal salt that is produced in a reaction with nitric acid.	Metal nitrate
11. What is an alkali?	A soluble base (metal hydroxide)
12. Write the general word equation for a neutralisation reaction	Metal hydroxide + acid \rightarrow metal salt + water
13. Write the general word equation for the reaction of an acid with a metal oxide	Metal oxide + acid \rightarrow metal salt + water
14. Write the general word equation for the reaction of an acid with a metal carbonate	Metal carbonate + acid \rightarrow metal salt + water + carbon dioxide
15. What is the pH of an acidic solution?	Less than 7
16. What is the pH of a neutral solution?	7
17. Which ion do all acids contain?	H ⁺
18. Which ion do all alkalis contain?	OH ⁻
19. Write the ionic equation that represents the neutralisation reaction	H ⁺ + OH ⁻ \rightarrow H ₂ O
20. Give 3 examples of weak acids	Ethanoic acid Citric acid Carbonic acid