



Chemical Changes - Quick fire questions

This work sheet is fully supported by a video tutorial; <https://youtu.be/7Nrma6v0A8I>

1. Describe what happens when a metal reacts with oxygen.
2. List the order of the reactivity series.
3. How are unreactive metals found?
4. What is the formula of magnesium oxide?
5. What is the formula of calcium hydroxide?
6. What ion is responsible for acidity?
7. What ion is responsible for alkalinity?
8. Is pH1 acid, alkali or neutral?
9. Is pH7 acid, alkali or neutral?
10. Is pH14 acid, alkali or neutral?
11. Write down the neutralisation equation.
12. When do ionic compounds conduct electricity?
13. Why do ionic compounds need to molten or dissolved conduct?
14. What happens to positive ions during electrolysis?
15. What happens negative ions during electrolysis?
16. If a metal chloride is being electrolysed what gas will be produced?
17. If metal sulfate is being electrolysed what gas will be produced?
18. How do you test for chlorine gas?
19. How do you test for hydrogen gas?
20. How do you test for oxygen gas?

Higher tier only

21. What is reduction?
22. What is oxidation?
23. Balance this Cl^- $\rightarrow \text{Cl}_2$
24. Balance this Mg^{2+} $\rightarrow \text{Mg}$
25. Give an example of a strong acid.
26. Give an example of a weak acid.
27. What is a concentrated acid?
28. What is a dilute acid?