Chemical changes

Chemistry Paper 1 | 30 quick questions

GCSE science knowledge recall

Answer online, marked instantly

Name: _____ **Date:** _____ **Score:** _____ **/ 30**

1 When a metal reacts with oxygen, what type of compound is formed?

2 What is the name for a reaction in which a substance gains oxygen? Answer in one word.

3 What is the name for a reaction in which a substance loses oxygen? Answer in one word.

4 Which is more reactive, potassium or copper?

5 Which non-metal is placed in the reactivity series to help decide how a metal is extracted?

6 Name one metal that is so unreactive it is found as the uncombined element in the Earth.

7 What is the name for a rock that contains enough of a metal compound to make extraction worthwhile?

8 Metals more reactive than carbon cannot be extracted by heating with carbon. What process is used instead?

9 In terms of electrons, what is oxidation?

Higher

10 In Mg + Cu^{2+} → Mg^{2+} + Cu, which particle is reduced?

Higher

11 Which gas is given off when magnesium reacts with dilute hydrochloric acid?

12 A lit splint is held at the mouth of a tube of hydrogen. What is heard?

13 What type of salt does hydrochloric acid always produce?

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14 What type of salt does sulfuric acid always produce?

15 An acid reacts with a metal carbonate to make a salt, water and which gas?

16 Name the salt made when zinc oxide reacts with sulfuric acid.

17 When making a salt from an insoluble base, the base is added until no more reacts. How is the extra solid removed?

18 Describe how you get solid crystals of the salt from the filtered solution.

19 What is the pH of a neutral solution?

20 Which ion do all acids produce in water? Give the name or the formula.

21 Which ion do all alkalis produce in water? Give the name or the formula.

22 A strong acid is _____ ionised in water. What is the missing word?

Higher

23 The hydrogen ion concentration of an acid is made 10 times bigger. What happens to the pH? Give the direction and the size of the change.

Higher

24 In a titration, which piece of glassware is used to add the acid a little at a time?

Separate science only

25 What colour is phenolphthalein indicator in an alkali?

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26 In a titration, what is the name for the point where the indicator just changes colour?

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27 What is the name of the positive electrode in electrolysis?

28 An ionic compound must be melted or dissolved before electrolysis so that its ions are free to do what?

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29 Aluminium oxide is mixed with which substance to lower its melting point before electrolysis?

30 Sodium chloride solution is electrolysed. Which gas forms at the negative electrode?

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