Types of reaction

Reactions 3.6.4 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 1: Reactions; Activate 3: Useful chemical reactions | Exploring Science 8E, 9E

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 What name is given to the substances you start with in a chemical reaction?

2 What name is given to the new substances made in a chemical reaction?

3 What is the scientific name for burning a fuel in oxygen?

4 A candle flame goes out when a jar is placed over it. Which gas in the air is needed for combustion?

5 A fire needs fuel, oxygen and one more thing. What is the third side of the fire triangle?

6 Natural gas (methane) burns completely to make carbon dioxide and which other product?

7 Which gas turns limewater cloudy?

8 What is the name for a reaction where one compound is broken down into simpler substances by heating it?

9 Green copper carbonate is heated and turns black. Complete the word equation: copper carbonate → copper oxide + ?

10 When a substance gains oxygen in a reaction, what is this type of reaction called?

11 Complete the word equation: sulfur + oxygen → ?

12 In a sealed flask, the reactants have a total mass of 10 g. What is the total mass of the products in grams?

13 A tablet dropped into water fizzes. Is the new substance being made a solid, a liquid or a gas?

Free for classroom and home use: print, photocopy and share. Not for resale or re-hosting.

14 Sugar dissolving in tea makes no new substance. Is this a chemical change or a physical change?

15 In a word equation, which one word can be said in place of the arrow?

Year 9 stretch

16 Complete the balanced equation by giving the number that goes in front of MgO: $2Mg + O_2 \rightarrow ?MgO$

17 10 g of calcium carbonate is heated in an open tube. Afterwards the solid left has a mass of 5.6 g. What mass of carbon dioxide escaped, in grams?

18 Look at this equation: $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$. How many oxygen atoms are on the left-hand side?

19 A faulty gas boiler burns fuel with too little oxygen and makes a poisonous gas with no smell. Name this gas.

20 Explain why a strip of magnesium gets heavier when it burns in air.

Free for classroom and home use: print, photocopy and share. Not for resale or re-hosting.