Elements

Matter 3.5.4 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 1: Elements, atoms and compounds | Exploring Science 7H

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

1 A gold ring is made of only one type of atom. What do we call a substance made of only one type of atom?

2 What is the name for the smallest particle of an element that can exist?

3 Table salt is made of sodium and chlorine chemically joined together. What do we call a substance made of two or more different elements chemically joined?

4 What is the name for a particle made of two or more atoms joined together?

5 What is the chemical symbol for oxygen?

6 What is the chemical symbol for iron?

7 Which element has the symbol Na?

8 Which element has the symbol K?

9 Which element has the symbol Cu? It is used for electrical wires and old pennies.

10 What is the chemical formula for water?

11 What is the name of the compound with the formula CO_2?

12 How many atoms are there in one molecule of CO_2?

13 Sulfuric acid has the formula H_2SO_4. How many different elements does it contain?

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14 Plastic shopping bags are made of very long chain molecules built from many small repeating units. What are these long molecules called?

15 Air contains nitrogen, oxygen and other gases that are not chemically joined. Is air an element, a compound or a mixture?

Year 9 stretch

16 Glucose has the formula $C_6H_{12}O_6$. How many atoms are in one molecule of glucose altogether?

17 Magnesium burns brightly and joins with oxygen. Name the compound that forms.

18 Iron filings are heated with sulfur powder and they join together. Name the compound that forms.

19 Calcium hydroxide has the formula $Ca(OH)_2$. How many oxygen atoms are in it?

20 Explain one difference between a mixture of iron and sulfur powders and the compound iron sulfide.

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