Metals and non-metals

Reactions 3.6.1 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Metals and other materials | Exploring Science 8G, 9F

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

1 Wires inside a phone charger cable are made of metal. Are metals good or poor conductors of electricity?

2 A freshly cut piece of metal reflects light and gleams. Which one word describes this property?

3 A blacksmith hammers hot iron into a horseshoe without it shattering. Which word means a material can be hammered into shape?

4 Copper can be pulled out into long thin wires. Which word describes this property?

5 Which metal is a liquid at room temperature?

6 Are most non-metals good or poor conductors of electricity?

7 Pencil lead is made of graphite, which conducts electricity even though it is a non-metal. Which element is graphite a form of?

8 A metal reacts with an acid to make a salt and which gas?

9 A lit splint is held at the mouth of a test tube of hydrogen. What kind of pop do you hear? Answer in one word.

10 When a metal reacts with oxygen, what type of compound is made?

11 An iron gate is left out in the rain and goes flaky and orange-brown. What is this flaky substance commonly called?

12 What is the name for the list of metals arranged from most reactive to least reactive?

13 Which is more reactive: potassium or iron?

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14 Zinc, magnesium and copper are each dropped into dilute hydrochloric acid. Which one does not fizz at all?

15 Sulfur is a non-metal. Is solid sulfur strong and bendy, or brittle?

Year 9 stretch

16 An iron nail is left in blue copper sulfate solution. A pinkish-brown coating forms on the nail. Which metal is this coating?

17 A piece of copper is put in zinc sulfate solution. Will a displacement reaction happen? Answer yes or no.

18 Complete the word equation: zinc + hydrochloric acid → ? + hydrogen

19 Sulfur dioxide from a volcano dissolves in rainwater. Will the rainwater become acidic or alkaline?

20 Explain why gold can be dug up as the pure metal but iron is almost always found joined to other elements.

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