Earth resources

Earth 3.7.4 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: The Earth; Activate 3: Useful chemical reactions | Exploring Science 8G, 9F

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

1 What is a rock called that contains enough of a metal compound to make it worth digging up?

2 People panning in rivers sometimes find small flakes of a yellow metal as the pure element. Which metal is it?

3 Some resources, like metal ores and oil, will run out one day because there is only a fixed amount. What word describes them?

4 Old drinks cans are melted down and made into new cans. What is this called?

5 Which non-metal element is heated with iron oxide to get the iron out?

6 Carbon can take oxygen away from a metal oxide only if the metal is less or more reactive than carbon?

7 Aluminium is more reactive than carbon. Which method, using electricity, is used to extract it?

8 What is the name for removing oxygen from a compound?

9 Copper oxide + carbon → copper + what?

10 A list of metals in order of how readily they react is called the reactivity ...?

11 Which is more reactive: sodium or iron?

12 Does recycling aluminium use more or less energy than extracting new aluminium from its ore?

13 Getting a metal out of the compound it is in is called what? Answer in one word.

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14 Plastic, glass and paper are all recycled. Which one of them is made from crude oil?

15 Glass is made mainly by melting which natural material found on beaches?

Year 9 stretch

16 Zinc is less reactive than carbon. Can zinc be extracted from zinc oxide by heating it with carbon? Answer yes or no.

17 Heating 160 g of copper oxide with carbon gives 128 g of copper. What mass of oxygen was removed from the copper oxide? Give your answer in g.

18 Extracting aluminium is expensive. Electrolysis needs huge amounts of what? Answer in one word.

19 An ore contains 5% copper. How much copper is in 2000 kg of the ore? Give your answer in kg.

20 Give one reason why recycling a metal is better than mining new ore.

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