

9E Reactions of metals and metal compounds

Extension questions

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

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Answer the following questions:



Click mouse to reveal answer

- Q1. What do we call a chemical that will easily react to form a new compound?
- Q2. What are shiny, conductive substances called?
- Q3. This is found on the periodic table. It contains only one kind of atom?
- Q4. Give a word that means to do with heat?
- Q5. Name a reactive metallic element that makes up half of the atoms in common salt?
- Q6. Which halogen makes up half of the atoms in common salt?
- Q7. How do we describe the reactant that remains when a particular chemical reaction has finished called?
- Q8. What is formed in a neutralisation reaction together with water?
- Q9. Which word means to be able to be drawn (pulled) easily into a wire?
- Q10. What is an output of a chemical reaction called?
- Q11. What is the complete reaction between acid and alkali called?
- Q12. What is a chemical with a pH value less than 7 called? Sulphuric and hydrochloric are examples?
- Q13. What are chemicals like sodium hydroxide with a pH value greater than 7 called?
- Q14. How do we describe a chemical like water with a pH value equal to 7?
- Q15. Give a word for a metallic surface which gives a clear reflection?
- Q16. Name a glass vessel used to hold liquid chemicals and solutions?
- Q17. What do we call a material that is not easily broken?

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Answers:

A1. Reactive

A2. Metals

A3. An element

A4. Thermal

A5. Sodium

A6. Chlorine

A7. It is in excess

A8. A salt

A9. Ductile

A10. A product

A11. Neutralisation

A12. Acid

A13. Alkali

A14. Neutral

A15. Shiny

A16. Beaker

A17. Tough

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multiple choice

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1: A lighted splint was placed in a test tube. It went 'squeaky pop.' The gas was ?

- A Oxygen
- B Carbon dioxide
- C Helium
- D Hydrogen

2: Calcium is added to strong hydrochloric acid. The metal salt produced is ?

- A Magnesium chloride
- B Calcium chloride
- C Calcium hydroxide
- D Calcium oxide

3: A non metal and metal element are reacted together. They form ?

- A Two elements
- B A mix of elements
- C A solution
- D A compound

4: Which is the largest group of elements in the periodic table ?

- A Noble gases e.g. neon
- B Metals
- C Non metals
- D The halogens e.g. Chlorine

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multiple choice

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C

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4: Which is the largest group of elements in the periodic table ?

A

B Metals

C

D

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literacy in science

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Answer all the questions below:



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1) Unscramble the following words:

mlseta

emesentl

cdsmponou

diecemsplant

2) Make three sentences using the following nine words or phrases:

reaction between
metal combusted
chemical reaction

metal and acid
in air
reactants combing

metal salt / hydrogen
forms its oxide
new products

3) Match the word or phrase with the right meaning:

Compound



Where an acid is canceled out forming a salt and water

Products



Two or more different elements joined together

Neutalisation



New materials from reactants combining during a reaction

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Answer all the questions below:

1) Unscramble the following words:

metals

elements

compounds

displacement

2) Make three sentences using the following nine words or phrases:

reaction between
metal combusted
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3) Match the word or phrase with the right meaning:

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complete the sentence

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Place the right word or words to complete the sentence:



Click mouse to reveal answer

two

zinc

metals

word

atoms

conserved

formula

oxide

acid

- A compound contains ____ more different elements joined together.
- A _____ tells you the type and number of atoms present in a compound.
- During a reaction, _____ join other atoms or molecules to form new products.
- Reactive _____ can easily combine with oxygen, water and lab acids.
- The formula for magnesium _____ is MgO.
- When you add a reactive metal to _____, hydrogen gas is liberated from the acid.
- Reactions can be described using a _____ or symbol equation.
- Mass is always _____ during a chemical reaction.
- Iron is less reactive than _____, which in turn is less reactive than potassium.

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complete the sentence

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- Mass is always conserved during a chemical reaction.
- Iron is less reactive than zinc, which in turn is less reactive than potassium.