

8E Atoms and elements

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 contains only one type of atom and is found on the periodic table?

Q2. What is the smallest particle of an element called?

Q3. Where do we find all the elements listed in order of atomic number?

Q4. Form of matter - solid, liquid or gas?

Q5. What do we call shiny materials that are good conductors of heat and electricity?

Q6. Which elements are usually electrical insulators with a dull appearance and are poor conductors of heat?

Q7. What do we call the abbreviations that represent the elements?

Q8. What is a group of chemically joined atoms called?

Q9. What do we call a way of writing down a chemical reaction?

Q10. Give another word for substance or stuff?

Q11. Give a word that means scientific representation or picture which helps us to understand how something works?

Q12. What is a horizontal row on the Periodic table called?

Q13. What is a vertical column on the Periodic table called?

Q14. What do we call the starting chemicals in a reaction?

Q15. What do we call the chemicals that we end up with in a reaction?

Q16. What do we call a regular arrangement of molecules? Diamonds, emeralds and rubies are examples of these?

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Answers:

- A1. An element
- A2. An atom
- A3. On the periodic table
- A4. State
- A5. Metals
- A6. Non-metals
- A7. Chemical symbols
- A8. A molecule
- A9. A word equation
- A10. Material
- A11. A model
- A12. A period
- A13. A group
- A14. Reactants
- A15. Products
- A16. Crystals

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multiple choice

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1: What is the smallest part of an element like oxygen or gold called ?

A The nucleus

B An atom

C A compound

D A mixture

2: Which of the following elements is a liquid metal at room temperature ?

A Oxygen

B Magnesium

C Mercury

D Chlorine

3: From the list below, what is the best definition of an element ?

A Made from different atoms

B Made from a mixture

C Made from only one type of atom

D Made from molecules

4: Which of the following is a compound and not an element ?

A Copper

B Gold

C Copper sulphate

D Iron

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multiple choice

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1: What is the smallest part of an element like oxygen or gold called ?

A

B **An atom**

C

D

2: Which of the following elements is a liquid metal at room temperature ?

A

B

C **Mercury**

D

3: From the list below, what is the best definition of an element ?

A

B

C **Made from only one type of atom**

D

4: Which of the following is a compound and not an element ?

A

B

C **Copper sulphate**

D

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literacy in science

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Answer all the questions below:



Click mouse to reveal answer

1) Unscramble the following words:

pesarticl

omucopnd

elentsem

piicoder btlea

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

all matter
every element
reactants

particles / atoms
symbol
chemical reaction

made from
periodic table
new products

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

Particle

All their atoms or particles are the same type

Compound

All matter is built from these building blocks

Element

Elements combine to form these materials during a reaction

Answer all the questions below:

1) Unscramble the following words:

particles

compound

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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

join

two

combine

elements

sodium

properties

matter

good

substance

- All _____ is made from particles or atoms.
- All _____ have their own unique physical properties.
- An element is a pure _____ containing only one type of atom.
- Metals are _____ conductors of heat and electricity.
- The symbol for _____ is Na. The symbol for iron is Fe.
- Elements are grouped according to their _____ in the periodic table.
- A compound is _____ or more different elements joined by a chemical bond.
- When metals _____ with oxygen they form their oxide.
- Atoms can _____ up during a chemical reaction forming molecules.

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complete the sentence

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Place the right word or words to complete the sentence:

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- a) All matter is made from particles or atoms.
- b) All elements have their own unique physical properties.
- c) An element is a pure substance containing only one type of atom.
- d) Metals are good conductors of heat and electricity.
- e) The symbol for sodium is Na. The symbol for iron is Fe.
- f) Elements are grouped according to their properties in the periodic table.
- g) A compound is two or more different elements joined by a chemical bond.
- h) When metals combine with oxygen they form their oxide.
- i) Atoms can join up during a chemical reaction forming molecules.