the most fascinating topics in science. Buy my student note now and start your journey towards mastering matter, elements, and atoms!

Tags: Matter, Elements, Atoms, Chemistry, Science, Education, Middle School.

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12. What is the difference between an element and a compound?

Answer:

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13. What are valence electrons?

Answer:

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14. How do chemical reactions occur?

Answer:

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15. What are some practical applications of understanding matter, elements, and atoms?

Answer:

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14. The periodic table organizes elements by their size.
    a. True
    b. False
15. Compounds are made up of only one type of atom.
    a. True
    b. False
16. Match the following elements with their respective chemical symbols:
    a) Hydrogen i) Ca
    b) Carbon ii) O
    c) Oxygen iii) H
    d) Calcium iv) C
17. Match the following states of matter with their descriptions:
    a) Solid i) Takes the shape of its container
    b) Liquid ii) No fixed shape or volume
    c) Gas iii) Fixed shape and volume
18. Match the following subatomic particles with their descriptions:
    a) Proton i) Positively charged
    b) Neutron ii) No charge
    c) Electron iii) Negatively charged
19. Match the following properties with their respective locations on the periodic table:
    a) Metals i) Upper right corner
    b) Nonmetals ii) Lower left corner
    c) Metalloids iii) Middle of the table
20. Match the following elements with their respective common uses:
    a) Sodium i) Strong and lightweight metal used in construction
    b) Chlorine ii) Used in bleach and disinfectants
    c) Carbon iii) Used in pencils and diamonds
    d) Silicon iv) Used in computer chips and solar panels