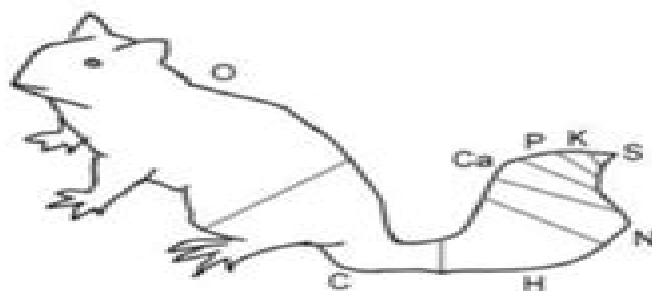


Elements & Macromolecules in Organisms

Most common elements in living things are carbon, hydrogen, nitrogen, and oxygen. These four elements constitute about 95% of your body weight. All compounds can be classified in two broad categories --- organic and inorganic compounds. Organic compounds are made primarily of carbon. Carbon has four outer electrons and can form four bonds. Carbon can form single bonds with another atom and also bond to other carbon molecules forming double, triple, or quadruple bonds. Organic compounds also contain hydrogen. Since hydrogen has only one electron, it can form only single bonds.

Each small organic molecule can be a unit of a large organic molecule called a macromolecule. There are four classes of macromolecules (polysaccharides or carbohydrates, triglycerides or lipids, polypeptides or proteins, and nucleic acids such as DNA & RNA). Carbohydrates and lipids are made of only carbon, hydrogen, and oxygen (CHO). Proteins are made of carbon, hydrogen, oxygen, and nitrogen (CHON). Nucleic acids such as DNA and RNA contain carbon, hydrogen, oxygen, nitrogen, and phosphorus (CHONP).

The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc. Color each of the elements on the next page according to the color listed next to the element's symbol. Then Color code the squirrel with the correct proportion of each element's color. Now color code the carrot with the same colors as you used on the squirrel.



Elements And Macromolecules In Organisms Worksheet Answer Key

Arturo Cuomo



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Table of Contents Elements And Macromolecules In Organisms Worksheet Answer Key

1. Understanding the eBook Elements And Macromolecules In Organisms Worksheet Answer Key
 - The Rise of Digital Reading Elements And Macromolecules In Organisms Worksheet Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Elements And Macromolecules In Organisms Worksheet Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elements And Macromolecules In Organisms Worksheet Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elements And Macromolecules In Organisms Worksheet Answer Key
 - Personalized Recommendations
 - Elements And Macromolecules In Organisms Worksheet Answer Key User Reviews and Ratings

- Elements And Macromolecules In Organisms Worksheet Answer Key and Bestseller Lists
- 5. Accessing Elements And Macromolecules In Organisms Worksheet Answer Key Free and Paid eBooks
 - Elements And Macromolecules In Organisms Worksheet Answer Key Public Domain eBooks
 - Elements And Macromolecules In Organisms Worksheet Answer Key eBook Subscription Services
 - Elements And Macromolecules In Organisms Worksheet Answer Key Budget-Friendly Options
- 6. Navigating Elements And Macromolecules In Organisms Worksheet Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Elements And Macromolecules In Organisms Worksheet Answer Key Compatibility with Devices
 - Elements And Macromolecules In Organisms Worksheet Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elements And Macromolecules In Organisms Worksheet Answer Key
 - Highlighting and Note-Taking Elements And Macromolecules In Organisms Worksheet Answer Key
 - Interactive Elements Elements And Macromolecules In Organisms Worksheet Answer Key
- 8. Staying Engaged with Elements And Macromolecules In Organisms Worksheet Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elements And Macromolecules In Organisms Worksheet Answer Key
- 9. Balancing eBooks and Physical Books Elements And Macromolecules In Organisms Worksheet Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elements And Macromolecules In Organisms Worksheet Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Elements And Macromolecules In Organisms Worksheet Answer Key
 - Setting Reading Goals Elements And Macromolecules In Organisms Worksheet Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elements And Macromolecules In Organisms Worksheet Answer Key
 - Fact-Checking eBook Content of Elements And Macromolecules In Organisms Worksheet Answer Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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