

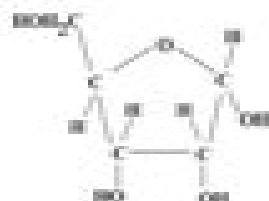
Biological Molecules

Organic and Inorganic compounds

- Organic compounds are based on _____ and are found in living things. There are a number of exceptions including hydrogen carbonate (HCO_3^-), carbon dioxide (CO_2) and Carbon monoxide (CO).
- _____ compounds are by default are all the molecules other than those in the category above.

Common organic molecules

Monosaccharide sugars. These are the _____ from which larger _____ molecules are constructed. Molecules like glucose and fructose are metabolically active molecules usually stored in an inactive, insoluble polysaccharide form.



Glucose: $\text{C}_6\text{H}_{12}\text{O}_6$ is a _____ sugar (six carbons) most commonly found in this ring structure.

Glucose will be known to most students as a product of _____ or the substrate molecule for _____.

Glucose is also found in a polymer form of starch, glycogen and cellulose.

All bonds are _____.

Glucose is a reducing sugar and will give positive (Brick red) precipitate in a _____ test.

Glucose is metabolically active compound

Glucose is _____ and has osmotic effects when in solution.

Ribose: _____ (5 carbon sugar).

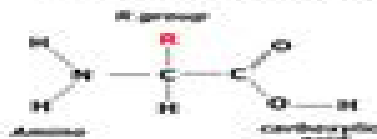
A modified version of ribose, deoxyribose is perhaps best known for its role in Deoxyribonucleic acid or _____ where it forms part of the sugar phosphate backbone. The chemical properties of deoxyribose are very _____ from the properties of ribulose

Both Ribose and Glucose will attract water molecules (hydrogen bonding) when in solution.

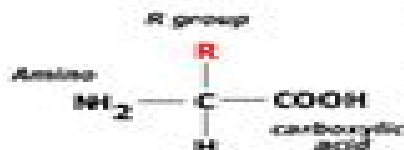
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Keywords

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Hexose
Monomers
Polymer
Respiration
Pentose
Twenty
Polypeptides
Covalent
Carbon
Photosynthesis
Inorganic
DNA
Different
Benedict's
Soluble

Amino Acids: There are _____ common amino acids found in the protein structures of living things. Amino acids are monomers which combine to form the larger _____. In turn polypeptides combine to form _____. Proteins molecules are the basis of _____ and many cellular and extra cellular components.



This model shows the structure of the general amino acid. If you build one in a molecular kit you will appreciate better the 3D structure. Each of the common amino acids has the same structure as the one shown except that the R group is different. Amino acids are soluble.



This is an alternative way to draw the general amino acid structure. This diagram illustrates the 'amino' group which is $-\text{NH}_2$. There is also the acidic group $-\text{COOH}$ which ionises in solution to form an $-\text{COO}^-$ and H^+ groups. This acid group is known as a carboxylic acid group.

Biological Molecules Worksheet Answers

Albert Kaskel



Biological Molecules Worksheet Answers:

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Judith Kinnear,Marjory Martin,Lucy Cassar,Elise Meehan,Ritu Tyagi,2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022-2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs Genetically Engineered Organisms Deborah K. Letourneau,Beth Elpern Burrows,2001-09-26 Genetic engineering suggests new avenues for constructing useful products but it also poses hazards to the health of the environment and the public Delineating those hazards is complicated difficult and important at every level of risk assessment and risk management decision making Risk assessment and risk management may be further complicated
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Table of Contents **Biological Molecules Worksheet Answers**

1. Understanding the eBook Biological Molecules Worksheet Answers
 - The Rise of Digital Reading Biological Molecules Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biological Molecules Worksheet Answers
 - 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 Biological Molecules Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biological Molecules Worksheet Answers
 - Personalized Recommendations
 - Biological Molecules Worksheet Answers User Reviews and Ratings
 - Biological Molecules Worksheet Answers and Bestseller Lists

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