

Chemistry of Life Exercise

Objectives:

1. Recognize and state the major characteristics of carbohydrates, proteins and lipids and their building blocks the monosaccharides, amino acids, glycerol and fatty acids.
2. Identify the main elements that compose the different classes of organic molecules and list how many covalent bonds one atom of each of the elements can form.
3. If given the structural formula for an organic compound, be able to identify all functional groups in the molecule and the type of compound (alcohol, aldehyde, amino acid, ketone or an organic acid including fatty acids).
4. Use common lab tests to test for the presence of simple sugars (reducing sugars), starch, lipids and proteins.
5. Know what substances are used to test for simple sugars (reducing sugars), starch, lipids and proteins and be able to recognize the positive results for each test.

Introduction:

Life, as we know it on earth, depends to a great extent on the structure, function and chemical reactivity of a diverse group of compounds including carbohydrates, proteins, lipids and nucleic acids. These common organic substances are major components of cells and/or fluids and secretions of the body. This exercise is intended to acquaint you with the basic structure and characteristics of these vital substances except for nucleic acids. Common lab tests will be used to identify simple sugars (reducing sugars), starch, lipids and proteins.

Partial list of Functional Groups of Organic Compounds:

| Name | Abbreviation | Structure | Properties |
|--|---------------------------------|---|------------|
| Hydroxyl group (Alcohols) | -OH | -O-H | Polar |
| Carboxyl group (Amino acids, Organic acids) | -COOH | $\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{OH} \end{array}$ | Acidic |
| Amino group (Amino acids, Amines) | -NH ₂ | $\begin{array}{c} \text{H} \\ \\ -\text{N}-\text{H} \end{array}$ | Basic |
| Carbonyl group (Aldehydes) | -CHO | $\begin{array}{c} \text{H} \\ \\ -\text{C}=\text{O} \end{array}$ | Polar |
| Carbonyl group (Ketones) | -C-CO-C- | $\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{C}-\text{C}- \\ \\ \text{O} \end{array}$ | Polar |
| Phosphate group | -H ₂ PO ₄ | $\begin{array}{c} \text{OH} \\ \\ -\text{O}-\text{P}-\text{OH} \\ \\ \text{O} \end{array}$ | Acidic |

Chemistry Lab Answers

Mary Burnham, Carol Hurd



Chemistry Lab Answers:

Practical Chemistry Labs Leonard Saland,1989 Features self contained step by step activities using common materials and covering topics from food chemistry to papermaking and electrochemistry Illustrates the connection between the real world and chemistry concepts such as solutions chemistry acids and bases and more Includes teacher notes quizzes and answers to help monitor student progress

Teaching and Learning in the School Chemistry Laboratory Avi Hofstein,Muhamad Hugerat,2021-11-05 Research into the educational effectiveness of chemistry practical work has shown that the laboratory offers a unique mode of instruction assessment and evaluation Laboratory work is an integral and important part of the learning process used to encourage the development of high order thinking and learning alongside high order learning and thinking skills such as argumentation and metacognition Authored by renowned experts in the field of chemistry education this book provides a holistic approach to cover all issues related to learning and teaching in the chemistry laboratory With sections focused on developing the skill sets of teachers as well as approaches to supporting students in the laboratory the book offers a comprehensive look at vicarious instruction methods teacher and students roles and the blend with ICT simulations and other effective approaches to practical work The book concludes with a focus on retrospective issues followed up with a look to the future of laboratory learning A product of nearly fifty years of research this book will be useful for chemistry teachers curriculum developers researchers in chemistry education and professional development providers

America's Lab Report National Research Council,Division of Behavioral and Social Sciences and Education,Center for Education,Board on Science Education,Committee on High School Laboratories: Role and Vision,2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished

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provides essential reading for teachers who need to evaluate their students grammar **The United States Catalog** Mary Burnham, Carol Hurd, 1928 Engineer Update, 1991 *A Laboratory Manual of Organic Chemistry for Beginners* Arnold Frederick Holleman, 1913 The English Catalogue of Books Sampson Low, 1906 Volumes for 1898 1968 include a directory of publishers **The American Catalogue**, 1908 American national trade bibliography **The American Catalogue ... July 1, 1876-Dec. 31, 1910**, 1908 **The American Catalog, 1900-1905**, 1905 **Key Issues in English for Specific Purposes in Higher Education** Yasemin Kırkgöz, Kenan Dikilitaş, 2018-01-08 This volume offers research based studies on English for Specific Purposes in higher education from across the world By drawing on international studies the book brings together diverse ESP practices and aspects of relevant issues in the development of ESP programs teachers and learners in a coherent fashion There is a growing need for undergraduate students to develop their proficiency of ESP skills and knowledge in the increasingly globalized world Knowledge of ESP is an important factor in subject matter learning by students and also closely related to the performance of university graduates in the relevant sectors Careful planning and efficient implementation are essential to ensure the quality of the language learning process For a variety of reasons it proves difficult to maintain ESP instruction in higher education These reasons include the incompetence of teachers lack of materials for that specific context as well as lack of opportunities for ESP teachers to develop their skills The chapters in this book taken from a wide variety of countries shed light on the diversity of current practices and issues surrounding ESP

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