

# BIOCHEMISTRY



## Lesson 1. Biochemistry: An Introduction

### LESSON OUTCOMES:

At the end of the lesson, you should be able to:

- familiarize yourself with the subject;
- have an idea about the different macromolecules;
- define monomers and polymers; and
- recall past ideas and learnings on matter and cells.

### Biochemistry: What is it?

- Biochemistry is also called Biological Chemistry, and it is a combination (amalgam) from two root words: "bio" and "chemistry"
  - "bio" comes from the Greek word *bios* which means life.
  - "chemistry" comes from the Greek word *chemia* which means to cast together.

Based on these, we can define biochemistry as the study of the chemical processes in living organisms.

- **Biochemistry** teaches us how the biological molecules like carbohydrates, proteins, lipids, and nucleic acids give rise to the multitudes of chemical processes in the living cell, which in turn gives rise to the complexity of life.
- Biochemistry in broad terms is the study of the chemical composition of the living matter and the biochemical processes that underlie life activities during growth and maintenance. (Singh, 2004)
- Biology is the study of living things. The father of biology is Aristotle.
- There is no universally agreed upon Father of Chemistry, but there are two known scientists heralded as the father of Chemistry: Jabir ibn Hayyan as the "Father of Early/Arabic Chemistry" while Antoine Lavoisier is known as the "Father of Modern Chemistry".
- The term biochemistry was first introduced to us by a German scientist named Carl Neuberg in 1903. He is referred to as the "Father of modern Biochemistry".

### Biochemistry: The Basics

- Monomers and polymers are the structural basis in which the four main macromolecules of biochemistry are based on.
  - Monomers are smaller micro molecules that are put together to make macromolecules.
  - Polymers are combination of two or more monomers that are synthesized through a process called *dehydration synthesis*.
- The large molecules necessary for life that are built from smaller organic molecules are called *biological macromolecules* or **biomolecules**. Biological macromolecules are organic, meaning that they contain carbon (with some exceptions, like carbon dioxide). In addition, they may contain hydrogen, oxygen, nitrogen, phosphorus, sulfur, and additional minor elements.
- There are four major classes of biomolecules: **(mnemonic is CaLIPhOs or CLPN)**
  - Carbohydrates
  - Lipids
  - Proteins
  - Nucleic Acids

# Lesson 1 Biochemistry Answers

**William Collins**



## Lesson 1 Biochemistry Answers:

Roadmap to the Regents Alison Pitt, 2003 If Students Need to Know It It s in This Book This book develops the biology skills of high school students It builds skills that will help them succeed in school and on the New York Regents Exams Why The Princeton Review We have more than twenty years of experience helping students master the skills needed to excel on standardized tests Each year we help more than 2 million students score higher and earn better grades We Know the New York Regents Exams Our experts at The Princeton Review have analyzed the New York Regents Exams and this book provides the most up to date thoroughly researched practice possible We break down the test into individual skills to familiarize students with the test s structure while increasing their overall skill level We Get Results We know what it takes to succeed in the classroom and on tests This book includes strategies that are proven to improve student performance We provide content groupings of questions based on New York standards and objectives detailed lessons complete with skill specific activities three complete practice New York Regents Exams in Living Environment **Reflective Teaching Lessons** ,1981 **Creating Project-Based STEM Environments** Jennifer Wilhelm,Ronald Wilhelm,Merryn Cole,2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way *Chemistry Success in 20 Minutes a Day* Michael B. McGinnis,2005 Offers a diagnostic test and twenty lessons covering vital chemistry skills **Glencoe Mathematics** William Collins,1999 *Dairy Industries* ,1966-07 *The Diplomat* ,1947 Vols for 1943 48 contain list of Diplomates of the National Board of Medical Examiners for 1941 47 *Study Guide to Accompany Seasons of Life 4e Telecourse* Berger,Kathleen Stassen Berger,2000-12-08 **Pamphlets on Protozoology (Kofoid Collection)** ,1925 *GED Science* Cambridge,1993-11 **Biochemistry and Cell Biology** ,2006 *Widening the Scope of Chemistry* Yoshito Takeuchi,1987 Catalog of Copyright Entries. Third Series Library of

Congress. Copyright Office,1967 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June     **Physical Science** George A. Williams,Richard Barnes,Ray Doerhoff,Max Bolen,1979 A physical science text stressing an awareness of the environment with related laboratory activities to lead the student into discovering basic laws and concepts of physics and chemistry     *Chemist and Druggist* ,1927     *The Annual American Catalog, 1908* ,1909     *Lawrence Alumnus* ,1926     **Cumulated Index to the Books** ,1960     **The United States Catalog; Books in Print January 1, 1912** Marion Effie Potter,1921     *The Cumulative Book Index* ,1914

Lesson 1 Biochemistry Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Lesson 1 Biochemistry Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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