

**Chapter**  
**6**
**The Chemistry of Life, continued**
**Reinforcement and Study Guide**
**Section 6.2 Water and Diffusion**

In your notebook, read about water and its importance.

For each statement below, write **true** or **false**.

- \_\_\_\_\_ 1. In a water molecule, electrons are shared equally between the hydrogen atoms and oxygen atom.
- \_\_\_\_\_ 2. The attraction of opposite charges between hydrogen and oxygen forms a weak oxygen bond.
- \_\_\_\_\_ 3. Because of its polarizing, water can move from the roots of a plant up to its leaves.
- \_\_\_\_\_ 4. Water changes temperature easily.
- \_\_\_\_\_ 5. Unlike most substances, water expands when it freezes.

Circle the letter of the choice that best completes the statement.

6. All objects in motion have  
 a. potential energy      b. heat energy      c. kinetic energy      d. random energy.
7. The first scientist to observe evidence of the random motion of molecules was  
 a. Brown      b. Darwin      c. Mendel      d. Huxley.
8. The net movement of particles from an area of higher concentration to an area of lower concentration is called  
 a. dynamic equilibrium      b. random movement  
 c. concentration gradient      d. diffusion.
9. Diffusion occurs because of  
 a. random movement of particles      b. random movement of particles  
 c. a chemical reaction between particles      d. chemical energy.
10. When a few drops of colored corn syrup are added to a beaker of pure corn syrup, the color will  
 a. move from low concentration to high concentration.  
 b. form a polar bond.  
 c. start to diffuse.  
 d. remain on the bottom of the beaker.
11. Diffusion can be accelerated by  
 a. decreasing the pressure      b. increasing the temperature  
 c. decreasing the movement of particles      d. increasing the dynamic equilibrium.
12. When materials pass into and out of a cell at equal rates, there is no net change in concentration inside the cell. The cell is in a state of  
 a. dynamic equilibrium      b. osmosis      c. imbalance      d. inertia.
13. The difference in concentration of a substance across space is called  
 a. dynamic equilibrium      b. concentration gradient  
 c. diffusion      d. Brownian movement.

# Chapter 6 The Chemistry Of Life Worksheet Answers

**Holt Rinehart & Winston, Holt,  
Rinehart and Winston Staff**



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**Chapter Resource 2 Chemistry of Life Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Books in Print Supplement, 2002

**Life Skills Activities for Secondary Students with Special Needs** Darlene

Mannix, 2021-06-08 Help students with special needs thrive with over 160 updated educational activities In the newly revised Third Edition of Life Skills Activities for Secondary Students with Special Needs teacher and author Darlene Mannix delivers a unique collection of over 160 updated activity sheets with related exercises discussion questions and evaluation suggestions to help students gain basic skills necessary for independence and success Each activity sheet focuses on a specific skill in a real world context and includes teacher directions for objectives introduction optional extension activities and assessment methods This crucial book includes Activity sheets and corresponding introductions in a wide variety of critical life skills such as interpersonal communication academic and school practical living and more Coverage of leisure activities and the importance of finding fulfilling hobbies and pastimes Tools to help students build their self awareness and understand their strengths and weaknesses Perfect for special educators general education teachers school counselors and psychologists Life Skills Activities for Secondary Students with Special Needs will also earn a place in the libraries of other professionals working with special needs children as well as the parents of those children

Survey of Science History & Concepts Parent Lesson Plan, 2013-08-01 Survey of Science History Concepts Course Description Students will study four areas of science Scientific Mathematics Physics Biology and Chemistry Students will gain an appreciation for how each subject has affected our lives and for the people God revealed wisdom to as they sought to understand Creation Each content area is thoroughly explored giving students a good foundation in each discipline Semester 1 Math and Physics Numbers surround us Just try to make it through a day without using any It s impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It s amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia first hand during fun and informative experiments Exploring the World of Physics is a great tool for student who want to have a deeper understanding of the important and interesting ways that physics affects our lives Semester 2 Biology and Chemistry The field of biology focuses

on living things from the smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God s amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990 s biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information **Essential**

**Practices for Managing Chemical Reactivity Hazards** Robert W. Johnson, Steven W. Rudy, Stephen D. Unwin, 2010-08-13

In its recent investigation of chemical reactivity accidents the US Chemical Safety Board noted a gap in technical guidance and regulatory coverage This volume closes the gap in technical guidance helping small and large companies alike identify address and manage chemical reactivity hazards It guides the reader through an analysis of the potential for chemical reactivity accidents to help prevent fires explosions toxic chemical releases or chemical spills This volume is applicable to processes at any scale and is particularly useful for chemists safety managers and engineers involved in scale up An enclosed CD ROM provides portable checklists analysis tools and a list of additional references Note CD ROM DVD and other supplementary materials are not included as part of eBook file [Advanced Pre-Med Studies Parent Lesson Plan](#)

, 2013-08-01 Advanced Pre Med Studies Course Description Semester 1 From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In Exploring the History of Medicine author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations It seems that a new and more

terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in *The Genesis of Germs* He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man's sin and the hope we have in the coming of Jesus Christ Semester 2 *Body by Design* defines the basic anatomy and physiology in each of 11 body systems from a creationist viewpoint Every chapter explores the wonder beauty and creation of the human body giving evidence for creation while exposing faulty evolutionist reasoning Special explorations into each body system look closely at disease aspects current events and discoveries while profiling the classic and contemporary scientists and physicians who have made remarkable breakthroughs in studies of the different areas of the human body Within *Building Blocks in Life Science* you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

**Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel, 1994-04-19

**Physical Science** Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

*Physical Chemistry for the Life Sciences* Thomas Engel, Gary Drobny, Philip J. Reid, 2008

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