

Chemistry of Life

Study Guide B**Answer Key****SECTION 1. ATOMS, IONS, AND MOLECULES**

1. An element is a certain type of atom.
2. Sketch should resemble one of the illustrations in Figure 1.2 in Section 1. Nucleus should be in the center with protons and neutrons. Electrons should be labeled in a ring surrounding the nucleus.
3. A compound is composed of atoms of different elements.
4. an atom that has gained or lost one or more electrons
5. the number of protons no longer equals the number of electrons
6. Sketch should resemble the first illustration in Figure 1.3, with one atom losing an electron (becoming a positive ion) and the other accepting that electron (becoming a negative ion).
7. A bond that forms between two atoms that share a pair of electrons.
8. the number of electron pairs that it needs to share to fill its outer energy level
9. molecule
10. compound
11. element
12. ion
13. Ionic bonds form between oppositely-charged ions; covalent bonds form when atoms share a pair of electrons.

SECTION 2. PROPERTIES OF WATER

1. a molecule with a slightly positively charged region and a slightly negatively charged region
2. The oxygen nucleus pulls the electrons in the molecule more strongly than the hydrogen atoms. The hydrogen atoms have a slight positive charge and the oxygen atom has a slight negative charge.
3. an attraction between a slightly positive hydrogen and a slightly negative atom
4. between the slightly positive hydrogen atom of one water molecule and the

slightly negative oxygen atom of another water molecule

5. A large amount of energy is needed to produce an increase in water temperature; water resists changes in temperature.
6. Water molecules “stick” to each other.
7. Water molecules “stick” to other substances.
8. A solvent is present in greater concentration and dissolves the solute.
9. ions and polar molecules
10. nonpolar molecules, such as fats and oils
11. **Effect on H^+ concentration:** acids increase H^+ concentration; bases decrease H^+ concentration
Effect on pH: acids lower pH; bases raise pH
12. Sketch should resemble Visual Vocab in Section 2 of the text. *Solution:* homogeneous mixture of substances; *solvent:* substance present in greater amount in which other substances dissolve; *solute:* substance that dissolves in a solvent.

SECTION 3. CARBON-BASED MOLECULES

1. Carbon atoms are the basis of the molecules that make up most living things.
2. Carbon atoms can form covalent bonds with up to four other atoms, including other carbon atoms.
3. Sketches should resemble Figure 3.1 in Section 3.
4. broken down as a source of chemical energy; part of cell structure
5. sugars, starches, cellulose
6. broken down as a source of chemical energy; part of cell structure
7. fats, oils, phospholipids
8. many functions, including movement, transport, chemical catalysts
9. enzymes, hemoglobin
10. store genetic information, build proteins

Study Guide B Answer Key Life Science

JL Elias



Study Guide B Answer Key Life Science:

Basic Pre-Med Parent Lesson Plan ,2013-08-01 Basic Pre Med Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility

Semester 1 Microbiology As the world waits in fear world health organizations race to develop a vaccine for the looming bird flu epidemic a threat that has forced international federal and local governments to begin planning for a possible pandemic and the widespread death and devastation which would follow Will the world find an answer in time Or will we see this threat ravage populations as others have before in 1918 with influenza in the late 18th century with yellow fever or the horrific black death or bubonic plague in 1347 AD Are these viruses examples of evolution Did God make microbes by mistake Are they accidents of evolution out of the primordial soup These timely questions are examined throughout The Genesis of Germs 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 this revealing and detailed book 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 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life 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

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

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
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