

Second Semester Biology Exam Study Guide

Students who complete this packet earn the privilege of using one side of a 8.5x11 sheet of paper of notes. It must be hand-written and may not be copied or printed.

Vocabulary (not a complete list)

Photosynthesis	Telophase	Homozygous	Transcription	Vestigial
Cellular respiration	Cytokinesis	Heterozygous	Translation	structures
Mitochondria	Stem Cells	Phenotype	Codon	Gradualism
Chloroplast	Cancer	Genotype	Anticodon	Domain
Fermentation	Gamete	Polygenic traits	Evolution	Eukaryote
Aerobic Respiration	Zygote	Sex-linked traits	Natural Selection	Prokaryote
ATP	Haploid	Codominance	Adaptation	Biology
Mitosis	Diploid	Nucleotide	Homologous	Control
Interphase	Meiosis	Purine	structures	Constant
Prophase	Genetics	Pyrimidine	Analogous	Dependent variable
Metaphase	Gene	Mutation	structures	Independent
Anaphase	Allele	Replication		Variable

Main Concepts:

1. What are the chemical reactions for cellular respiration? Identify the reactants and products, their sources, and their functions.
2. What are the chemical reactions for photosynthesis? Identify the reactants and products, their sources, and their functions..
3. What is the purpose of fermentation?
4. Complete the chart below to compare and contrast steps of **photosynthesis**:

	What is made	What's used	Overall purpose
Light-dependent			
Light-independent			

5. Complete the chart below to compare and contrast the steps of aerobic **cellular respiration**.

2nd Semester Biology Semester Test Study Guide

Jianjun Gao



2nd Semester Biology Semester Test Study Guide:

Concepts of Medicine & Biology Parent Lesson Plan ,2013-08-01 Concepts of Medicine and Biology 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 Medicine 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 Semester 2 Biology 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

Intro to Speleology & Paleontology Parent Lesson Plan ,2013-08-01 Introduction to Speleology and Paleontology 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 Speleology Explore deep into the hidden wonders beneath the surface as cave expert Dr Emil Silvestru takes you on an illuminating and educational journey through the mysterious world of caves Discover the beautiful thriving ecology unique animals and fragile balance of this little seen ecosystem in caves from around the globe The Cave Book will teach you about a creationary model for how caves form a history of how caves have been used by humans for shelter and worship how old caves really are the surprising world of Neanderthals and their connection to modern humans how to make a stone axe and about early tools just how long it really takes for cave formations to form unusual animals that make caves their home examples of how connected caves are to mythology of many cultures the climate and geologic processes and features of caves and karst rocks the process by which

ice caves form exploration hazards and record setting caves how caves form and features above and below the surface Filled with beautiful and fascinating color photos of caves from around the world The Cave Book is a wonderful guide to this hidden world of wonderful Enjoy learning on your journey of exploration into these exciting and mysterious places underground Semester 2 Paleontology Fossils have fascinated humans for centuries From the smallest diatoms to the largest dinosaurs finding a fossil is an exciting and rewarding experience But where did they come from and how long have they been around These and many other questions are answered in this remarkable book The Fossil Book will teach you about the origin of fossils how to start your own fossil collection what kinds of fossils can be commonly found the age of fossils how scientists find and preserve fossils how to identify kinds of fossils how the Flood affected fossil formation the Geologic Column Diagram the difference between evolutionists and creationists views on fossils the four Cs of biblical creation the different kinds of rocks fossils are found in coal and oil formation Learning about fossils their origins and how to collect them can be both fun and educational The abundance of both marine and land fossils and the locations they are found in is a fascinating subject for students of all ages and has been studied by scientists and layperson alike for many years **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 of 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

The Teachers Journal and Abstract ,1926 *Bulletin* Carleton College (Northfield, Minn.),1916 *The Macmillan Guide to Correspondence Study* Modoc Press,1996 [Bulletin of Information](#) ,1927 **Tests in Print II** Oscar Krisen Buros,1974 **Catalogue** Skidmore College,1930 **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Catalog of Carleton College for the Academic Year ... Carleton College (Northfield, Minn.),1915 **Technical Report NAVTRADEVCEEN 269-7** ,1949 *A Study of Biology Notebook Work in New York State* Don Otto Baird,1929 *Catalog* Kansas State Teachers College of Emporia,1918 **University Catalog Issue ...** Lehigh University,1924 **Biology** Edward C. Gruber,1963 [The Temple University Catalogue](#) Temple University,1923 [Educational Reference Circular](#) ,1927 [Bulletin](#) ,1927 *Announcements for the Year ...* Purdue University,1909

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