

Honors Biology
Semester 1 Final Exam Study Guide

The Introduction to Biology

The scientific method

Homeostasis

Purpose and Hypothesis

Theory

The Chemistry of Life

Matter, elements, atoms, compounds

Properties of water: adhesion, cohesion, hydrogen bonds

Location and charge of protons, neutrons, electrons

Atomic number vs. Mass number

Isotopes

Differences in the types of bonds: covalent, ionic, hydrogen

Difference between exothermic and endothermic reactions

Solution, solute and solvent

What is an acid, base, salt? And how is a pH scale used?

Monomers and Polymers

Carbohydrates

Lipids: fats, phospholipids, steroids and waxes

amino acids and proteins

Enzymes and Activation energy and Catalyst and Substrate and active site

Nucleic acids- RNA, DNA

Cell Structure and Function

Parts of a compound microscope

How to use a microscope

Magnification, resolution

Three principles of the cell theory

Parts of the cell, their function and location

Differences between prokaryotes and eukaryotes

Differences between an animal and plant cell

Nature of the cell membrane, phospholipid bilayer, semi-permeable membrane and fluid mosaic model

Passive transport, osmosis, diffusion and facilitated diffusion and concentration gradient

Hypertonic, hypotonic and isotonic solutions

Active transport- Endocytosis, exocytosis

Ion channels

Cells and Energy

Photosynthesis

Getting energy from ATP

Photosynthesis reaction equation

Chloroplast, chlorophyll, pigments

Light reactions, dark reactions

Calvin Cycle

Electron transport chain

ATP synthase

Glycolysis

Cellular respiration, ATP- how much formed at each step

Respiration reaction equation

Anaerobic and aerobic respiration

Fermentation

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E Staff

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Biology Edward C. Gruber,1963 Teaching Methods in Science Subjects Promoting Sustainability Eila Jeronen,2018-04-03 This book is a printed edition of the Special Issue Teaching Methods in Science Subjects Promoting Sustainability that was published in Education Sciences **AP Biology - Quick Review Study Notes & Facts** E Staff, AP Biology Quick Review Study Notes Facts Learn and review on the go Use Quick Review AP Biology Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Playground and Recreation Director's Handbook Arco Publishing Company,1964 **Teaching Self-Regulation** Amy S. Gaumer Erickson,Patricia M. Noonan,2021-11-30 Self regulation fuels students to become socially and emotionally engaged lifelong learners And just like mastering mathematics or language arts content to develop strong self regulation students need ongoing practice opportunities With this timely resource you ll gain 75 instructional activities to teach self regulation in any secondary classroom Ample teacher tested tools and templates are also included to help you create authentic learning experiences and deliver effective feedback Explore the four components for successful self regulation 1 plan 2 monitor 3 adjust and 4 reflect Develop students planning abilities for both personal and academic goals Guide students in adjusting plans when faced with obstacles Study real life scenarios of how to shift from regulating for students to coaching students to self regulate Review testimonials from teachers and students who have seen and experienced the positive results of self regulation practices Contents Introduction Chapter 1 Understanding Self Regulation Chapter 2 Making a Plan Chapter 3 Monitoring Your Plan and Progress Chapter 4 Adjusting Your Plan Chapter 5 Reflecting On Your Efforts and Outcomes Chapter 6 Putting It All Together Chapter 7 Measuring Growth in Self Regulation Epilogue and Next Steps Appendix A Situational Judgment Assessment Appendix B Self Regulation Questionnaire and Knowledge Test Appendix C Student Templates References and Resources Index **Course-Based Undergraduate Research** Nancy H. Hensel,2023-07-03 Co published with the Council on Undergraduate Research Undergraduate research has long been recognized as a high impact practice HIP but has unfortunately been offered only to juniors and seniors and to very few of them often in summer programs This book shows how to engage students in authentic research experiences built into the design of courses in the first two years thus making the experience available to a much greater number of students Research that is embedded in a course especially general education courses addresses the issue of how to expand undergraduate research to all students Research has shown that students who have early experiences in undergraduate research are more likely to pursue further research prior to and after graduation This is also an issue of social justice because it makes the benefits of undergraduate research available to students who must work during the academic year and in the summer It is widely accepted that the skills developed through undergraduate research help prepare students for their future careers The book addresses all aspects of the topic including What are appropriate expectations for

research in the first two years How to design appropriate course based research for first and second year students How to mentor a class rather than individual students How students can disseminate the results of their research Possible citizen science projects appropriate for the first and second years Providing additional resources available to support course based research in the first two years Designed for faculty at four year and two year colleges and including examples from the sciences the social sciences and the humanities the strategies and methods described can be adapted to disciplines not specifically mentioned in the book Many faculty are hesitant to engage first and second year students in undergraduate research because they worry students don t know enough to conduct authentic research in their discipline because they worry about the time it will take to develop activities for these students and because they wonder how they can mentor a whole class of students doing research The authors have successfully dealt with these issues and provide examples of how it s done *Paperbound Books in Print* ,1966 **Ready for College** Michael Pennock,1997 The first year of college is among the most daunting a person will ever face This freshman year begs for maximum up front preparedness Ready for College provides ways to plan and maintain finances which supplies to bring and which to leave at home how to avoid the pitfalls of dorm living and much more New students are also reminded to continue developing an ongoing relationship with Jesus

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 Guide to the Evaluation of Educational Experiences in the Armed Services , **The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services**

American Council on Education Staff,2004-10-27 **The American Biology Teacher** ,2007-08 Resources in Education ,1977 **Handbook of Research on Science Teaching and Learning** Dorothy Gabel,1994 Sponsored by the National

Science Teachers Association this handbook provides a uniquely comprehensive and current survey of the best research in science education compiled by the most renowned researchers More than summaries of findings the content provides an assessment of the significance of research evaluates new developments and examines current conflicts controversies and issues in the major science disciplines biology chemistry physics and earth science History of Science Syllabus Sampler ,1992 **Cornell University Courses of Study** Cornell University,1996 *Science Books & Films* ,1979 **2005 College Handbook: More Than 3,600 4-year and 2-year Colleges** CollegeBoard,2004 Presents information on enrollment fields of

study admission requirements expenses and student activities at two and four year colleges American Journal of Physics
,1976 **The College Board College Handbook 2004** College Board,College Board Staff,2003-07-15 This is the only
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