

## PHO Exam Study Guide Answer Key

### Chapter 2 Biology in the 21<sup>st</sup> Century

1. What is biology? the study of **life** and **the study of life**.
2. What was the 1<sup>st</sup> characteristic of life? **All organisms are made up of one or more cells.**
3. All organisms need a source of energy for their life processes. **All organisms must respond to their environment.** **All organisms in a species must have the ability to reproduce and develop.**
4. How are structure and function related? **Structure and function are related in the sense of characteristics in cells. Different types of cells have different functions that depend on their specialized structure (e.g. skin cells have structures that make the skin cells work. Structures and functions are also related in the level of the organism.)** **All animals have special cells in skin and eyes.**
5. What is homeostasis? **One of the goals of homeostasis is that organisms of various internal conditions, keeping water gain and loss and (balancing) water gain and loss and excretion.**
6. List and explain the general steps of the scientific method. **Observation, Experiment, Collect Data, Analyze results, Draw a conclusion, and Repeat.**
7. What are independent and dependent variables? **Experiment is conducted in a series of the organism that is being tested. The independent variable is the factor that is manipulated/changed by the experimenter. The dependent variable is the factor that is being observed/measured.**
8. What are controls and groups? **The experimental setup is a group with no other factor/variable (the control) so that they can test the effect of the factor. Other factors are held constant.**

9. Sugar dissolves in water completely with water. This solution of a substance in water is measured by knowing the amount of the substance that dissolved in a given amount of water or a given temperature (saturated). The solution of sugar in water increases as the temperature of the water increases. Identify the independent and dependent variables. **What was - temp. of water**  
**What was - solubility of sugar**
10. An electromagnet can be made by wrapping insulated wire around an iron nail and connecting the ends of the wire to a battery. Electromagnets increase the number of coils of wire wrapped around the nail increase the strength of the electromagnet as measured by the number of paper clips the magnet can pick up. Identify the independent and dependent variables. **What was - number of coils wrapped around nail, What was - strength of electromagnet**

### Chapter 3 Chemistry of Life

1. What is the difference between a mixture and a compound? **A mixture has molecules that consist of different atoms or more than one type of molecule. The mixture of water.**
2. What are the 3 properties of water? **Water is a polar molecule. It has hydrogen bonds that are responsible for water's high specific heat, cohesion, and adhesion.**
3. Is water polar or non-polar, and why is this important? **Water is a polar molecule, and is important because it allows water to have charged regions which in turn allows hydrogen bonds to form.**
4. What is diffusion? **Diffusion is the movement among molecules of different substances (e.g. water molecules moving in the sense of a glass).**

# 21st Century Biology Study Guide Answers

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**A Hunter-Gatherer's Guide to the 21st Century** Heather Heying, Bret Weinstein, 2021-09-14 A provocative exploration of the tension between our evolutionary history and our modern woes and what we can do about it We are living through the most prosperous age in all of human history yet we are listless divided and miserable Wealth and comfort are unparalleled but our political landscape is unmoored and rates of suicide lone liness and chronic illness continue to skyrocket How do we explain the gap between these truths And how should we respond For evolutionary biologists Heather Heying and Bret Weinstein the cause of our troubles is clear the accelerat ing rate of change in the modern world has outstripped the capacity of our brains and bodies to adapt We evolved to live in clans but today many people don t even know their neighbors names In our haste to discard outdated gender roles we increasingly deny the flesh and blood realities of sex and its ancient roots The cognitive dissonance spawned by trying to live in a society we are not built for is killing us In this book Heying and Weinstein draw on decades of their work teaching in college classrooms and explor ing Earth s most biodiverse ecosystems to confront today s pressing social ills from widespread sleep deprivation and dangerous diets to damaging parenting styles and back ward education practices Asking the questions many mod ern people are afraid to ask A Hunter Gatherer s Guide to the 21st Century outlines a science based worldview that will empower you to live a better wiser life Ideas for 21st

Century Education Ade Gafar Abdullah, Ida Hamidah, Siti Aisyah, Ari Arifin Danuwijaya, Galuh Yuliani, Heli S.H. Munawaroh, 2017-08-09 Ideas for 21st Century Education contains the papers presented at the Asian Education Symposium AES 2016 held on November 22 23 2016 in Bandung Indonesia The book covers 11 topics 1 Art Education AED 2 Adult Education ADE 3 Business Education BED 4 Course Management CMT 5 Curriculum Research and Development CRD 6 Educational Foundations EDF 7 Learning Teaching Methodologies and Assessment TMA 8 Global Issues in Education and Research GER 9 Pedagogy PDG 10 Ubiquitous Learning UBL 11 Other Areas of Education OAE A Self-study Guide to the

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Sadler, 2007-10 Written by examiners and practising teachers each book in this series contains activities and useful features

intended to aid understanding Knowledge is tested throughout with progress checks at the end of every chapter and practice questions at the end of each section

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*Improving Quality in American Higher Education* Richard Arum, Josipa Roksa, Amanda Cook, 2016-05-02 An ambitious comprehensive reimagining of 21st century higher education *Improving Quality in American Higher Education* outlines the fundamental concepts and competencies society demands from today s college graduates and provides a vision of the future for students faculty and administrators Based on a national multidisciplinary effort to define and measure learning outcomes the Measuring College Learning project this book identifies essential concepts and competencies for six disciplines These essential concepts and competencies represent efforts towards articulating a consensus among faculty in biology business communication economics history and sociology disciplines that account for nearly 40 percent of undergraduate majors in the United States Contributions from thought leaders in higher education including Ira Katznelson George Kuh and Carol Geary Schneider offer expert perspectives and persuasive arguments for the need for greater clarity intentionality and quality in U S higher education College faculty are our best resource for improving the quality of undergraduate education This book offers a path forward based on faculty perspectives nationwide Clarify program structure and aims Articulate high quality learning goals Rigorously measure student progress Prioritize higher order competencies and disciplinarily grounded conceptual understandings A culmination of over two years of efforts by faculty and association leaders from six disciplines

this book distills the national conversation into a delineated set of fundamental ideas and practices and advocates for the development and use of rigorous assessment tools that are valued by faculty students and society Improving Quality in American Higher Education brings faculty voices to the fore of the conversation and offers an insightful look at the state of higher education and a realistic strategy for better serving our students Natural History Collections in the Science of the 21st Century Roseli Pellens,2021-11-30 Natural history collections have recently acquired an unprecedented place of importance in scientific research Originally created in the context of systematics and taxonomy they are now proving to be fundamental for answering various scientific and societal questions that are as significant as they are current Natural History Collections in the Science of the 21st Century presents a wide range of questions and answers raised by the study of collections The billions of specimens that have been collected from all around the world over more than two centuries provide us with information that is vital in our quest for knowledge about the Earth the universe the diversity of life and the history of humankind These collections also provide valuable reference points from the past to help us understand the nature and dynamics of global change today Their physical permanence is the best guarantee we have of a return to data and to information sources in the context of open science *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office,2005 **Library of Congress Subject Headings** Library of Congress,2010 **Resources in Education** ,2001-04 Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges Jonathan E. Suk,Kathleen M. Vogel,Amanda Jane Ozin,2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives Test of Faith, Leader's Guide Ruth Bancewicz,2010-09 Test of FAITH is an innovative new resource designed for use by small groups wishing to explore big issues raised by science for both faith and ethics It introduces a wide range of hot topics including Are science and Christianity in conflict Has the Big Bang pushed God out of the universe What does creation mean Is evolution compatible with religious faith Is cloning ethical Are humans no more than biological machines Test of FAITH is designed to enable non specialists to join the discussion It allows small groups to unpack these issues and discuss them at a level and pace that suits the group It is flexible so that users can choose the topics that they want to cover and encourages open discussion of a range of views This Leader s Guide accompanies the Test of

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