

Practical Task Term 1: Biosphere to ecosystems

Date: _____

Name: _____

Total	
	30

Duration: 45 minutes

INSTRUCTIONS AND INFORMATION**Read the following instructions carefully before answering the questions.**

1. This is a formal SBA task and must be done under supervised conditions in the classroom.
2. Each learner completes this task on his/her own (under test conditions).
3. Present the answers according to the instructions of each question.
4. Draw all diagrams in pencil and labels in blue ink.
5. The diagrams in the question paper may NOT be drawn to scale.

BACKGROUND INFORMATION

The biosphere is the thin layer of land, air and water around the earth's surface that supports life. The abiotic, or non-living, portion of each ecosystem in the biosphere includes the flow of energy, nutrients, water, and gases and the concentrations of organic and inorganic substances in the environment. The biotic, or living, portion includes organisms based on their methods of acquiring energy: the primary producers, largely green plants; the consumers, which include all the animals; and the decomposers, which include the microorganisms that break down the remains of plants and animals into simpler components for recycling in the biosphere.

Ecological pyramids are a graphical representation in the shape of a pyramid to show the feeding relationship of groups of organisms, and the flow of energy or biomass through the different trophic levels in a given ecosystem.

QUESTION 1: Abiotic factors

Grade 10 learners carried out an investigation to determine the water content,

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Stem Strategies for the Classroom (Grades K-8) Nancy Heilbrunner, 2018-02-12 Studying science technology engineering and math subjects collectively known as STEM equips students with the knowledge and skills to solve tough problems gather and evaluate evidence and make sense of information Students today need STEM skills more than ever to succeed in our increasingly information based and technological society Science technology engineering and mathematics workers play a key role in the sustained growth and stability of the U S economy and are a critical component to helping the U S win the future Furthermore STEM occupations are growing at more than twice the rate of non stem careers For all these reasons STEM education needs to be a priority in all schools This quick reference laminated guide provides an overview of best practices in STEM education for teachers of grades K 8 It addresses what STEM literacy is and why it s so important and provides an overview of best practices in STEM education These include engage students in minds on activities emphasize inquiry have students conduct fair tests experiments as well as investigations focus on authentic learning differentiate instruction The guide also includes sections on differentiation assessing students in STEM supporting underrepresented student populations and incorporating the arts STEAM

Proceedings of The 7th MAC 2016 group of authors, 2016-05-24 Proceedings of The 7th MAC 2016 The 7th Multidisciplinary Academic Conference in Prague 2016 Czech Republic

Teaching High School Science Through Inquiry and Argumentation Douglas Llewellyn, 2012-11-28 Proven ways to teach next generation science The numbers are in and the pressure is on The U S s lead in science is very much at risk If we re to help ensure our students achieve scientific literacy we need to take a critical look at what s working and what isn t One thing we know for certain inquiry and argumentation are key and the single best resource on the subject is Teaching High School Science Through Inquiry and Argumentation Devoted to Grades 9 12 this new edition of Douglas Llewellyn s ground breaking text aligns the four key elements of effective science education scientific literacy inquiry argumentation and the nature of science Fully revised the second edition features Content that addresses the new direction of science standards Exceptional coverage of scientific argumentation Enhanced chapters on assessment and classroom management Questioning techniques that promote the most learning Activities that emphasize making claims and citing evidence New examples of inquiry investigations New approaches to traditional labs Case studies and vignettes that model exemplary science instruction With its standards based content there s no better resource to help you elevate your teaching to meet the call for instructional reform Douglas Llewellyn teaches science education courses at St John Fisher College in Rochester New York Previously he was the K 12 Director of Science at the Rochester City School District a junior high school principal and a middle school science teacher His books include Inquire Within Implementing Inquiry Based Science Standards in Grades 3 8 and Differentiated Science Inquiry both published by Corwin Llewellyn s approach supports educators in realizing the central role argumentation plays in helping students make defensible connection between claims

data evidence and explanations Not only is this a timely publication but one that is sure to be well used Page Keeley Past President National Science Teachers Association Author of Science Formative Assessment *Health Informatics - E-Book* Ramona Nelson, Nancy Staggars, 2016-12-08 Awarded second place in the 2017 AJN Book of the Year Awards in the Information Technology category See how information technology intersects with health care Health Informatics An Interprofessional Approach 2nd Edition prepares you for success in today's technology filled healthcare practice Concise coverage includes information systems and applications such as electronic health records clinical decision support telehealth ePatients and social media tools as well as system implementation New to this edition are topics including data science and analytics mHealth principles of project management and contract negotiations Written by expert informatics educators Ramona Nelson and Nancy Staggars this edition enhances the book that won a 2013 American Journal of Nursing Book of the Year award Experts from a wide range of health disciplines cover the latest on the interprofessional aspects of informatics a key Quality and Safety Education for Nurses QSEN initiative and a growing specialty area in nursing Case studies encourage higher level thinking about how concepts apply to real world nursing practice Discussion questions challenge you to think critically and to visualize the future of health informatics Objectives key terms and an abstract at the beginning of each chapter provide an overview of what you will learn Conclusion and Future Directions section at the end of each chapter describes how informatics will continue to evolve as healthcare moves to an interprofessional foundation NEW Updated chapters reflect the current and evolving practice of health informatics using real life healthcare examples to show how informatics applies to a wide range of topics and issues NEW mHealth chapter discusses the use of mobile technology a new method of health delivery especially for urban or under served populations and describes the changing levels of responsibility for both patients and providers NEW Data Science and Analytics in Healthcare chapter shows how Big Data as well as analytics using data mining and knowledge discovery techniques applies to healthcare NEW Project Management Principles chapter discusses proven project management tools and techniques for coordinating all types of health informatics related projects NEW Contract Negotiations chapter describes strategic methods and tips for negotiating a contract with a healthcare IT vendor NEW Legal Issues chapter explains how federal regulations and accreditation processes may impact the practice of health informatics NEW HITECH Act chapter explains the regulations relating to health informatics in the Health Information Technology for Education and Clinical Health Act as well as the Meaningful Use and Medicare Access CHIP Reauthorization Act of 2015 [The Palgrave Encyclopedia of Sexuality Education](#) ,2024-12-23 This Encyclopedia provides a comprehensive map of the field of sexuality education It offers an entry point for those interested in this topic providing a robust summary of issues and directing them to its best scholarship Comprehensive in scope it covers diverse global locations to highlight the significance of context when defining sexuality education The rapid development and increase in accessibility of digital technologies which has broadened sexuality education to include digital and media platforms is also

reflected **Developing Person Through Childhood and Adolescence** Kathleen Stassen Berger, 2015-04-15 Exceptional in its currency global in its cultural reach Kathleen Berger's portrait of the scientific investigation of childhood and adolescent development helps bring an evolving field into the evolving classroom Guided by Berger's clear inviting authorial voice and page after page of fascinating examples from cultures around the world students see how classic and current research and the lives of real people shape the field's core theories and concepts In addition to Kathleen Berger's exhaustive updating of the research this edition is notable for its thorough integration of assessment throughout learning objectives assessments after each section expanded end of chapter quizzes all aligned with national standards For Younger Readers, 2014 *Psychology in Action* Karen R. Huffman, Katherine Dowdell, 2015-02-13 Engage and inspire through active learning with Karen Huffman and new co author Katherine Dowdell's *Psychology in Action* 11th Edition Binder Ready Version the acknowledged leader of active learning and student success Designed for introductory psychology courses this flagship book helps students examine their own personal studying and learning styles with several new pedagogical aids encouraging students to apply what they are learning to their everyday lives Through its welcoming voice *Psychology in Action* 11th Edition Binder Ready Version continues to offer a program with ongoing study tips and psychological techniques for mastering the material This text is an unbound binder ready version Popular Science Monthly and World Advance, 1925 **The Right College, 1991** College Research Group of Concord Massac, 1990-07 The brand new totally updated edition of the college guide covering every aspect of campus life Complete profiles of the more than 1 500 accredited four year colleges and universities in the United States Canada and Mexico cover everything from admissions to prominent graduates to social events Engineering and Mining Journal, 1903 Lovejoy's College Guide, 1991 Offers in depth profiles of more than 2500 four year and two year colleges and universities **Peterson's Colleges with Programs for Students with Learning Disabilities** Charles T. Mangrum, Stephen S. Strichart, 1994 Profiles over 800 colleges and universities that offer programs and services for students with learning disabilities *The Times Index*, 2013-02 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement *Subject Guide to Books in Print*, 1993 **Scientific American**, 1914 *The Michigan Journal*, 1990 Country Life Illustrated, 1948-07 **The Railway Age and Northwestern Railroader**, 1896 **Holt Science and Technology** Holt Rinehart & Winston, 2004-02

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