

**LIFE SCIENCES GRADE 10
PRACTICAL TASK 1.2**

DATE: 22 September 2020

TIME: 30 minutes **TRANSPIRATION and MOVEMENT OF WATER**

MARKS

30

NAME:

QUESTION 1

- 1.1 The rate of water loss from the leaves of a potted plant can be measured by determining the mass of the plant at one-hour intervals.

An investigation was done to determine the effect of light intensity on the rate of water loss.

At each light intensity the apparatus was left for 15 minutes before determining the mass.

The loss of water was then determined and recorded in the following table:

Light intensities (kilolux)	Loss of water (g/hour)
0	1
10	15
20	20
30	22
40	22

- 1.1.1 What is the name of the process through which a plant loses water, in the form of water vapour, from the leaves?

_____ (1)

- 1.1.2 Give the dependent variable of this investigation.

_____ (1)

- 1.1.3 Name ONE way in which the validity of the results was ensured at each light intensity.

_____ (1)

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Group of Authors



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Future-proofing STEAME education in South Africa Rajendran Govender,Josef de Beer,Rouaan Maarman,Rajendra Chetty,2025-02-28 This book aims to contribute to the discourse of finding innovative solutions to the myriad of challenges facing science education in South Africa The book positions itself in the multi disciplinary focus on Science Technology Engineering Arts Mathematics and Entrepreneurship STEAME education rather than the traditional narrow focus on Science Technology Engineering and Mathematics STEM The chapters in the book explore the challenges and opportunities facing STEAME education in a complex 21st century and at the advent of a society with a strong artificial intelligence component in its DNA The leitmotif of the book is how engaging pedagogies could be utilised in the classroom to enhance self directed learning a sine qua non to future proof South Africa s science and technological advancement This is a book written by scholars for scholars Its target audience includes academics and researchers in the field of science education and scholars engaged with innovative teaching pedagogies particularly approaches that would enhance the achievement of learners in disadvantaged contexts The chapters in the book although eclectic in approach all contribute to the central theme of the book Most of the chapters lean on textual analyses literature reviews or concept papers which disclose new ideas before full validation Education And Awareness Of Sustainability - Proceedings Of The 3rd Eurasian Conference On Educational

Innovation 2020 (Ecei 2020) Charles Tijus,Teen-hang Meen,Chun-yen Chang,2020-11-17 This volume represents the proceedings of the 3rd Eurasian Conference on Educational Innovation 2020 ECEI 2020 Thes conference is organized by the International Institute of Knowledge Innovation and Invention IIKII and was held on February 5 7 2020 in Hanoi Vietnam ECEI 2020 provides a unified communication platform for researchers in a range of topics in education innovation and other related fields This proceedings volume enables interdisciplinary collaboration of science and engineering technologists It is a fine starting point for establishing an international network in the academic and industrial fields **Social Issues in Sport,**

Leisure, and Health Sine Agergaard,David Karen,2023-10-03 This book examines how social issues shape and influence our engagement with sport leisure time physical activity and health promoting exercise Connecting the personal with the public it helps the reader understand how individual exercise leisure and sport participation are both facilitated and constrained by their social contexts Presenting a series of in depth descriptions of grassroots sport urban lifestyle sport physical activity across the life course sport for children with special needs and the development of creative climates in sport this book seeks to encourage what C Wright Mills described as the sociological imagination Every chapter begins with an individual level account centred on everyday challenges with accessing sport partaking in leisure activities and meeting guidelines for daily exercise before exploring the larger socially determined patterns in which those experiences are located establishing a vital template for the social scientific study of sport leisure and health Touching on key contemporary themes including diversity inclusion health inequalities and physical inactivity as well as selection and intensification in sports this book offers new case

material and theoretical tools for understanding the relationships between sport leisure health and the wider society This is an indispensable companion for any course on the sociology of sport exercise leisure or physical activity and health

Proceedings of IAC 2023 in Vienna Group of Authors,2023-07-06 International Academic Conferences Management Economics and Marketing IAC MEM Teaching Learning and E learning IAC TLEI Engineering Transport IT and Artificial Intelligence IAC ETITAI

The Changing World of Outdoor Learning in Europe Peter Becker,Barbara Humberstone,Chris Loynes,Jochem Schirp,2018-06-12 The Changing World of Outdoor Learning in Europe sets out to provide a comprehensive analysis of the economical and political changes that have occurred in European outdoor culture in the preceding two decades from a diverse range of perspectives including institutional theoretical national and educational views The book looks at how outdoor education has been transformed into an increasingly global field where established and influenced practices have been introduced into modernising and democratising nations With contributions from the members of the board of the European Institute of Outdoor Adventure Education and Experiential Learning and representatives of the networks that stand behind it this unique book provides thorough factual analyses and examinations of outdoor learning that have never been presented before The book contains contributions from across Europe with authors from the UK Germany Finland Sweden Slovenia Poland Norway and the Czech Republic Chapters within the volume by non European authors provide another perspective on the European story in a wider context As a whole the book will stimulate the ongoing debate about the nature function and organisation of outdoor education around the globe The Changing World of Outdoor Learning in Europe will be of great interest to academics researchers and postgraduate students in the fields of outdoor education leadership and recreation and outdoor sport environmental and leisure studies It should also be essential reading for those involved in outdoor organisations in Europe and worldwide

An Introduction to Human Resource Management Nick Wilton,2025-02-07 Grasp the fundamentals of Human Resource Management with this engaging and accessible text ideal for undergraduate and postgraduate students Covering the key aspects of HRM this bestselling book will prepare you for the strategic decisions and issues you may face in your HR career This updated 6th edition includes current discussions on topics such as the gig economy gender equality and AI and is packed with useful learning features including Case studies from a cross section of global industries such as Netflix Uber and Lego A running case study throughout allowing you to relate theory to practice as you solve the challenges faced by the HR Manager of a hotel HRM in Practice Ethical Insight and Global Insight boxes which look at HRM in a practical context and stimulate critical debate Self test questions and a key terms glossary to allow you to check your understanding as you learn Nick Wilton is Professor of Applied Human Resource Management and Associate Dean of People Accreditation and Reputation at Oxford Brookes Business School

Biochemicals and Reagents for Life Science Research Sigma Chemical Company,1999 **Journal of Education** ,1902 **Pedagogies of Biomedical Science** Donna Johnson,2024-05-31 This book confronts the continually evolving

nature of biomedical science education by providing a robust account of learning pedagogies and best practice for scholars and researchers in the field Rather than considering subdisciplines of biomedical science education separately the volume takes a holistic approach and considers the complexities of teaching biomedical science as a whole providing a nuanced overview of how a particular practice fits in such a course overall as well as providing support for development within the reader's own subdiscipline Ultimately this holistic approach allows for expansive discussion of relevant pedagogical approaches that will directly inform innovations in the contemporary teaching of biomedical science education Novel in approach and underpinned by the latest in research innovations this book will appeal to scholars researchers and postgraduate students in the fields of medical education higher education and curriculum studies Policy makers involved with health education and promotion as well as educational research will also benefit from the volume Agents of Flourishing Amy L. Sherman, 2022-05-10 God calls Christians of every vocation to participate in his redemptive mission so that every corner and square inch of society can flourish as God intends Amy Sherman offers a multifaceted biblically grounded roadmap for enacting God's call to seek the shalom of our communities showcasing historical and contemporary models of faithful and transformational cultural engagement **Scientific American**, 1893 Monthly magazine devoted to topics of general scientific interest Sick Schools David V. Anderson, 2020-01-10 Who's afraid of for-profit education Those who work in non-profit or government owned and operated schools Many parents and other stakeholders have been made fearful by this education establishment What's more important to humans nutrition or education Nutrition is more important because it is the prerequisite for other human activities including education What organizations provide food and who pays for the food Food is provided by for-profit farmers for-profit processors for-profit wholesalers and for-profit retailers Most food is purchased with the consumer's own money but a significant amount is purchased by low-income individuals using food stamps Why can't education be provided similarly using education stamps We trust for-profit enterprises to provide our food Why can't we trust for-profit enterprises to provide K-12 education Fearmongers have frightened us and made us into gullible compliant socialists who despise commercial activities in education Go to the supermarket and ponder its marvelous array of foods and then contemplate how a for-profit K-12 education sector would please and amaze its customers **Abstracts of Studies in Education at the Pennsylvania State College** Pennsylvania State College. School of Education, 1933 *The United States Catalog* Mary Burnham, Carol Hurd, 1928 *Supercapacitors* Stanislav Kolisnychenko, 2015-07-31 Aggregated Book *The Interior*, 1899 Issues for Jan 12 1888 Jan 1889 include monthly Magazine supplement **American Lumberman**, 1899 **Forest and Stream**, 1909 The Farmer, 1924 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

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