



**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)

# Life Science Grade 10 Practical Exemplar

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## **Life Science Grade 10 Practical Exemplar:**

*Biological Invasions in South Africa* Brian W. van Wilgen, John Measey, David M. Richardson, John R. Wilson, Tsungai A. Zengeya, 2020-03-10 This open access volume presents a comprehensive account of all aspects of biological invasions in South Africa where research has been conducted over more than three decades and where bold initiatives have been implemented in attempts to control invasions and to reduce their ecological economic and social effects It covers a broad range of themes including history policy development and implementation the status of invasions of animals and plants in terrestrial marine and freshwater environments the development of a robust ecological theory around biological invasions the effectiveness of management interventions and scenarios for the future The South African situation stands out because of the remarkable diversity of the country and the wide range of problems encountered in its varied ecosystems which has resulted in a disproportionate investment into both research and management The South African experience holds many lessons for other parts of the world and this book should be of immense value to researchers students managers and policy makers who deal with biological invasions and ecosystem management and conservation in most other regions Science and Technology Teacher Education in the Anthropocene Miranda Rocksén, Elaosi Vhurumuku, Maria Svensson, Emmanuel Mushayikwa, Audrey Msimanga, 2022-05-17 This unique book compares anthropogenic challenges in science and technology teacher education between the northern and southern contexts of Sweden and South Africa respectively Presenting the results of a three year research collaboration between science and technology teacher education researchers from South Africa and Sweden the book explores theoretical perspectives and pedagogical experiences in response to challenges in the Anthropocene It discusses research informed practice in teacher education to address sustainable development Chapters in the book collectively investigate the influence of current environmental and societal changes on the education of teachers answering the question of how science and technology teacher education can adjust to current changes in the world and prepare new teachers for work in their future profession Touching on issues such as climate change global warming and pandemic diseases the book uses a comparative approach and explores opportunities and possibilities for fulfilling the goals of science and technology education for sustainable development The book offers recommendations and opportunities to implement sustainability issues and develop sustainable teaching strategies It will be a key reading for researchers academics and post graduate students in the fields of teacher education science and technology education sustainability education and comparative education *Literary Digest: a Repository of Contemporaneous Thought and Research as Presented in the Periodical Literature of the World* Edward Jewitt Wheeler, Isaac Kaufman Funk, William Seaver Woods, 1904 **Science Curriculum Resource Handbook** ,1992 **Federal Register** ,1969-09 *The Literary Digest* Edward Jewitt Wheeler, Isaac Kaufman Funk, William Seaver Woods, Arthur Stimson Draper, Wilfred John Funk, 1904 **Normal Instructor and Teachers World** ,1922 *The new Popular encyclopedia. Under the gen. ed. of C. Annandale* Charles Annandale, 1902

Catalog of Instructional Tapes for Handicapped Students, Preschool Through University Level Clearinghouse Depository for Handicapped Students(California). Master Tape Library,1976     School Science and Mathematics ,1911     In Situ Molecular Pathology and Co-Expression Analyses Gerard J. Nuovo,2013-02-07 In Situ Molecular Pathology and Co Expression Analyses explains in easy to understand language simplified ways of understanding and performing in situ hybridization and immunohistochemistry tests The book also focuses on straightforward protocols used to simultaneously detect two or more proteins nucleic acids within intact tissue by doing co expression analyses The fields of in situ hybridization and immunohistochemistry have expanded rapidly due to the use of computer based analysis To get the most out of these automated platforms researchers and diagnostic biomedical investigators must have a solid understanding of the basics of in situ based tests protocols and regimens for troubleshooting Practicing molecular pathologists clinical chemists and toxicologists as well as clinicians and researchers in training will benefit from this book s clear presentation of protocols and theoretical framework Includes over 200 easy to follow experimental protocols Features chapter ending summaries of Key Points to Remember to bring beginners up to speed with any seasoned veteran in the field Offers two chapters written by industry leaders in the fields of in situ hybridization immunohistochemistry and computer software for co expression analyses

Nature ,1897     **Digest** ,1904     **The Farmer & Stock-breeder** ,1930     **Our Paper** ,1913     *The North Carolina Teacher* ,1928     Illinois Education ,1922     Family and Consumer Sciences Curriculum Framework and Program Guidelines for Tennessee Tennessee. Department of Education,1996     **The Connecticut School Journal** ,1874     *The Journal of Education* Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1876

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