



## LIFE SCIENCES GRADE 11 2022

### Practical Task Term 3: Gaseous Exchange

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 needs to be done under supervised conditions in the classroom.
2. Each learner completes this task on his/her own (under test conditions).
3. Present your answers per the instructions of each question.
4. Draw all diagrams in pencil and labels in blue ink.
5. The diagrams in this task may NOT be drawn to scale.

#### BACKGROUND INFORMATION

##### What is breathing?

Breathing is the process that moves air in and out of the body (lungs). It enables oxygen to enter the body and carbon dioxide to be expelled.

##### Why is breathing so necessary for life?

The oxygen in the air is needed for the oxidation of food to release energy during respiration. This energy is used to perform the work needed to keep cells and organisms alive. Carbon dioxide is released during respiration and must be expelled, otherwise it will lower the pH of body fluids.

##### What is gaseous exchange?

There is an exchange of gases in the lungs. When we breath in, oxygen in the inhaled air in the lungs diffuses into the blood from the alveoli. Carbon dioxide diffuses from the blood into the alveoli and is breathed out.

##### What is the breathing mechanism?

The breathing mechanism allows for pulmonary ventilation, commonly known as 'breathing'. This is the process of moving air into and out of the lungs. Air flows into the lungs during inspiration (inhalation) and out of the lungs during expiration (exhalation). Air flows because of pressure differences between the atmosphere and the gases inside the lungs.

# Life Science Practical 2013 Grade 11

**BM King**



## **Life Science Practical 2013 Grade 11:**

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

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*Teaching Secondary Science* Keith Ross, Liz Lakin, Janet McKechnie, Jim Baker, 2015-06-19 The fourth edition of Teaching Secondary Science has been fully updated and includes a wide range of new material This invaluable resource offers a new collection of sample lesson plans and includes two new chapters covering effective e learning and advice on supporting learners with English as a second language It continues as a comprehensive guide for all aspects of science teaching with a focus on understanding pupils alternative frameworks of belief the importance of developing or challenging them and the need to enable pupils to take ownership of scientific ideas This new edition supports all aspects of teaching science in a stimulating environment enabling pupils to understand their place in the world and look after it Key features include Illustrative and engaging lesson plans for use in the classroom Help for pupils to construct new scientific meanings M level support materials Advice on teaching difficult ideas in biology chemistry physics and earth sciences Education for sustainable development and understanding climate change Managing the science classroom and health and safety in the laboratory Support for talk for learning and advice on numeracy in science New chapters on e learning and supporting learners with English as a second

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**Soil Behavior and Characterization of Geomaterials** Kasinathan Muthukkumaran,Ravi Sankar Jakka,C. R. Parthasarathy,B. Soundara,2022-11-30 This book comprises the select peer reviewed proceedings of the Indian Geotechnical Conference IGC 2021 The contents focus on Geotechnics for Infrastructure Development and Innovative Applications The book covers topics related to soil behavior and characterization of geomaterials geotechnical geological and geophysical investigation of special topics such as behavior of unsaturated soils offshore and marine geotechnics remote sensing and GIS instrumentation and monitoring retrofitting of geotechnical structures reliability in geotechnical engineering geotechnical education codes and standards among others This volume will be of interest to those in academia and industry Lifespan Development Tara L. Kuther,2022-05-12 With a chronological organization Lifespan Development Lives in Context Third Edition follows three core themes the centrality of context the importance of research and the applied value of developmental science Tara L Kuther s clear concise narrative guides students through current and classic studies and foundational theories while exploring real world connections and inclusive perspectives **Current Advances for Development of Functional**

**Foods Modulating Inflammation and Oxidative Stress** Blanca Hernandez-Ledesma,Cristina Martinez-Villaluenga,2021-12-03 Current Advances for Development of Functional Foods Modulating Inflammation and Oxidative Stress presents the nutritional and technological aspects related to the development of functional foods with anti inflammatory and antioxidant effects Specifically analytical approaches for the characterization of anti inflammatory and antioxidant properties of healthy foods and functional constituents as well as technological strategies for the extraction of compounds and fractions from raw materials to produce anti inflammatory and antioxidant ingredients are addressed In addition the molecular mechanisms by which foods and their components can modulate inflammation and their oxidative stress effects on disease prevention are explored Finally clinical research addressing nutritional needs in pathological subjects with inflammatory diseases are considered Covers methods of analysis and extraction of anti inflammatory and

antioxidant compounds Offers an overview of the main anti inflammatory and antioxidant compounds in foods Provides a guide on the mechanisms of action and health benefits of anti inflammatory and antioxidant dietary bioactives *Artificial Intelligence in Geriatric Mental Health Research and Clinical Care* Ellen E. Lee,Andrea Iaboni,Helmet Karim,Ipsit Vahia,2022-03-18 **Exceptional Child Education Abstracts** ,1973 **38th Annual Scientific Meeting** National Academy of Science and Technology (Philippines). Annual Scientific Meeting,2016 **Popular Science Monthly and World Advance** ,1925 **Advances in Manufacturing Science and Engineering** Xiang Hua Liu,Kai Feng Zhang,Ming Zhe Li,2013-06-27 Selected peer reviewed papers from the 4th international Conference on Manufacturing Science and Engineering ICMSE 2013 March 30 31 2013 Dalian China *Comfort* ,1919 *Vogue* ,1952 **Bowker's Complete Video Directory** ,2000 **The Texas Outlook** ,1927 *Books in Print Supplement* ,2002 **Sociological Abstracts** Leo P. Chall,1963 CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences The database provides abstracts of journal articles and citations to book reviews drawn from over 1 800 serials publications and also provides abstracts of books book chapters dissertations and conference papers **Scientific American** ,1888 Monthly magazine devoted to topics of general scientific interest

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