

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 SEA 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.

Grade Exemplars Thutong Life Science

Albert Kaskel



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Self-directed learning research and its impact on educational practice Elsa Mentz,Roxanne Bailey,2021-05-17
This scholarly book is the third volume in an NWU book series on self directed learning and is devoted to self directed learning research and its impact on educational practice The importance of self directed learning for learners in the 21st century to equip themselves with the necessary skills to take responsibility for their own learning for life cannot be over emphasised The target audience does not only consist of scholars in the field of self directed learning in Higher Education and the Schooling sector but includes all scholars in the field of teaching and learning in all education and training sectors The book contributes to the discourse on creating dispositions towards self directed learning among all learners and adds to the latest body of scholarship in terms of self directed learning Although from different perspectives all chapters in the book are closely linked together around self directed learning as a central theme following on the work done in Volume 1 of this series Self Directed Learning for the 21st Century Implications for Higher Education to form a rich knowledge bank of work on self directed learning

South Africa Yearbook ,2009 *Life Sciences* Peter Preethlall,2008 **Focus on Life Science** ,2007 Provides students with a foundation in modern biological sciences with an emphasis on molecular biology

Just the Facts: Life Science, Grades 4 - 6 Steve Rich,2007-01-01 With a solid foundation of basic science knowledge and a basic understanding of concepts and vocabulary students will be prepared for higher order thinking and inquiry based activities Back cover

SET Life Science: Solved Exam Questions Kailash Choudhary,D. Sondge,R.P. Saran,N. Soni,2017-12-01 The present book SET Life Science Solved Papers is specially developed for the aspirants of SET Life Sciences Examinations This book includes previous solved papers SET Life Science papers of Maharashtra Andhra Pradesh Karnataka Tamil Nadu Kerala Gujarat and Rajasthan Main objective of this book is to develop confidence among the candidates appearing for SET examination in the field of Life Sciences Both fundamental and practical aspects of the subject have been covered by solved questions This book meets the challenging requirements of CSIR NET GATE IARI BARC and Ph D entrance of various Indian universities

Life Science Clarence J Robinson Professor of Physics James Trefil,James Trefil,Rita Ann Calvo,Kenneth Cutler,McDougal-Littell Publishing Staff,2004-01-25

□□□□□□ □□□,□□□,2006 **Life Science Work Text** Milton S. Lesser,2003-06-17 This book provides up to date complete coverage of a standard one year course in life science for on grade middle school or off track high school biology students

Life Science Student Text Pat Crissey,Kristina M. Swann,2007-08-01

Exploring Life Science Antea Maton,Prentice-Hall Staff,1997 The Apprentice's Companion for Life Science Tracy Creek,2023-04-28 This text is a collection of 26 experiments observations and other activities designed to accompany our text Life Science an introductory biology text designed for sixth grade students The activities include a mixture of short items 10 15 min and full period 45 60 min items The Apprentice s Companion concept is unique the book is a combination of experiment book commonplace book lab journal and sketch book Throughout

the book are poems historical connections literary references and artwork all of which creates a delightful environment for students as they pursue practical studies in biology **Go for life science** Hella Rust,2008 *Life Science* M. J. Spear,1991-06 *National Student Resource Book - Grade 3-5 Life Science* Discovery Education Staff,2011-10-18 National Student Resource Book Grade 3 5 Life Science **Life Science** ,2008 **Life Science** Albert Kaskel,1971

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