

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

Pat Crissey, Kristina M. Swann



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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 *Glencoe Science: Life Science* Glencoe Publishing

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Life Science Clarence J Robinson Professor of Physics James Trefil,James Trefil,Rita Ann Calvo,Kenneth Cutler,McDougal-Littell Publishing Staff,2004-01-25 Exploring Life Science Antea Maton,Prentice-Hall Staff,1997 **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

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