

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.

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Rachel S Tattersall



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Table of Contents Life Sciences Practical 3 Grade11 Memorandum

1. Understanding the eBook Life Sciences Practical 3 Grade11 Memorandum
 - The Rise of Digital Reading Life Sciences Practical 3 Grade11 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Life Sciences Practical 3 Grade11 Memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Life Sciences Practical 3 Grade11 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Life Sciences Practical 3 Grade11 Memorandum
 - Personalized Recommendations
 - Life Sciences Practical 3 Grade11 Memorandum User Reviews and Ratings
 - Life Sciences Practical 3 Grade11 Memorandum and Bestseller Lists
5. Accessing Life Sciences Practical 3 Grade11 Memorandum Free and Paid eBooks
 - Life Sciences Practical 3 Grade11 Memorandum Public Domain eBooks
 - Life Sciences Practical 3 Grade11 Memorandum eBook Subscription Services
 - Life Sciences Practical 3 Grade11 Memorandum Budget-Friendly Options
6. Navigating Life Sciences Practical 3 Grade11 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Life Sciences Practical 3 Grade11 Memorandum Compatibility with Devices
 - Life Sciences Practical 3 Grade11 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Life Sciences Practical 3 Grade11 Memorandum
 - Highlighting and Note-Taking Life Sciences Practical 3 Grade11 Memorandum
 - Interactive Elements Life Sciences Practical 3 Grade11 Memorandum
8. Staying Engaged with Life Sciences Practical 3 Grade11 Memorandum

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Life Sciences Practical 3 Grade11 Memorandum
- 9. Balancing eBooks and Physical Books Life Sciences Practical 3 Grade11 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Life Sciences Practical 3 Grade11 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Life Sciences Practical 3 Grade11 Memorandum
 - Setting Reading Goals Life Sciences Practical 3 Grade11 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Life Sciences Practical 3 Grade11 Memorandum
 - Fact-Checking eBook Content of Life Sciences Practical 3 Grade11 Memorandum
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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