



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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Table of Contents Grade11 Practical Investigation 2014

1. Understanding the eBook Grade11 Practical Investigation 2014
 - The Rise of Digital Reading Grade11 Practical Investigation 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade11 Practical Investigation 2014
 - 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 Grade11 Practical Investigation 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade11 Practical Investigation 2014
 - Personalized Recommendations
 - Grade11 Practical Investigation 2014 User Reviews and Ratings

- Grade11 Practical Investigation 2014 and Bestseller Lists
- 5. Accessing Grade11 Practical Investigation 2014 Free and Paid eBooks
 - Grade11 Practical Investigation 2014 Public Domain eBooks
 - Grade11 Practical Investigation 2014 eBook Subscription Services
 - Grade11 Practical Investigation 2014 Budget-Friendly Options
- 6. Navigating Grade11 Practical Investigation 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade11 Practical Investigation 2014 Compatibility with Devices
 - Grade11 Practical Investigation 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade11 Practical Investigation 2014
 - Highlighting and Note-Taking Grade11 Practical Investigation 2014
 - Interactive Elements Grade11 Practical Investigation 2014
- 8. Staying Engaged with Grade11 Practical Investigation 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade11 Practical Investigation 2014
- 9. Balancing eBooks and Physical Books Grade11 Practical Investigation 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade11 Practical Investigation 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade11 Practical Investigation 2014
 - Setting Reading Goals Grade11 Practical Investigation 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade11 Practical Investigation 2014
 - Fact-Checking eBook Content of Grade11 Practical Investigation 2014
 - 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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