



## LIFE SCIENCES GRADE 11 2022

### Practical Task Term 3: Gaseous Exchange

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Total	
	30

Duration: 45 minutes.

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#### 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 Grade 11 Practical November

**JS Bruner**



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## **Table of Contents Life Science Grade 11 Practical November**

1. Understanding the eBook Life Science Grade 11 Practical November
  - The Rise of Digital Reading Life Science Grade 11 Practical November
  - Advantages of eBooks Over Traditional Books
2. Identifying Life Science Grade 11 Practical November
  - 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 Science Grade 11 Practical November
  - User-Friendly Interface
4. Exploring eBook Recommendations from Life Science Grade 11 Practical November

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

- Fact-Checking eBook Content of Life Science Grade 11 Practical November
  - 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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