



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.

Life Science Practical November 2013 Grade 11

Ensheng Dong



Life Science Practical November 2013 Grade 11:

The book delves into Life Science Practical November 2013 Grade 11. Life Science Practical November 2013 Grade 11 is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Life Science Practical November 2013 Grade 11, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Life Science Practical November 2013 Grade 11
 - Chapter 2: Essential Elements of Life Science Practical November 2013 Grade 11
 - Chapter 3: Life Science Practical November 2013 Grade 11 in Everyday Life
 - Chapter 4: Life Science Practical November 2013 Grade 11 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Life Science Practical November 2013 Grade 11. This chapter will explore what Life Science Practical November 2013 Grade 11 is, why Life Science Practical November 2013 Grade 11 is vital, and how to effectively learn about Life Science Practical November 2013 Grade 11.
3. In chapter 2, the author will delve into the foundational concepts of Life Science Practical November 2013 Grade 11. The second chapter will elucidate the essential principles that must be understood to grasp Life Science Practical November 2013 Grade 11 in its entirety.
4. In chapter 3, this book will examine the practical applications of Life Science Practical November 2013 Grade 11 in daily life. The third chapter will showcase real-world examples of how Life Science Practical November 2013 Grade 11 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Life Science Practical November 2013 Grade 11 in specific contexts. This chapter will explore how Life Science Practical November 2013 Grade 11 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Life Science Practical November 2013 Grade 11. The final chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Life Science Practical November 2013 Grade 11.

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