

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

D Keegan



Grade Exemplars Thutong Life Science:

The book delves into Grade Exemplars Thutong Life Science. Grade Exemplars Thutong Life Science is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Grade Exemplars Thutong Life Science, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Grade Exemplars Thutong Life Science
- Chapter 2: Essential Elements of Grade Exemplars Thutong Life Science
- Chapter 3: Grade Exemplars Thutong Life Science in Everyday Life
- Chapter 4: Grade Exemplars Thutong Life Science in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Grade Exemplars Thutong Life Science. This chapter will explore what Grade Exemplars Thutong Life Science is, why Grade Exemplars Thutong Life Science is vital, and how to effectively learn about Grade Exemplars Thutong Life Science.

3. In chapter 2, this book will delve into the foundational concepts of Grade Exemplars Thutong Life Science. This chapter will elucidate the essential principles that must be understood to grasp Grade Exemplars Thutong Life Science in its entirety.

4. In chapter 3, this book will examine the practical applications of Grade Exemplars Thutong Life Science in daily life. This chapter will showcase real-world examples of how Grade Exemplars Thutong Life Science can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Grade Exemplars Thutong Life Science in specific contexts. The fourth chapter will explore how Grade Exemplars Thutong Life Science is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Grade Exemplars Thutong Life Science. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Grade Exemplars Thutong Life Science.

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Grade Exemplars Thutong Life Science Introduction

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