



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.

Grade 11 Practical Elephant Life Science September 2014

Daniela Niemeyer



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Keto Smart!: Heal Your Brain and Body With the Ten-Step Action Plan Scientifically Proven to Prevent or Reverse Obesity, Memory Loss, Alzheimer's, Diabetes, Autoimmunity, Cancer, and Heart Disease Y.L. Wright M.A., J.M. Swartz M.D., 2018-09-05 Get Smart with KETO SMART Heal your brain and heal your body with this easy KETO SMART program KETO SMART is packed with secrets to improve your memory and thinking with simple instructions that you can easily follow Learn how to radically improve the health of your brain so that you can enjoy life to the max at any age Your heart arteries and everything else will improve as well The KETO SMART 10 step protocol is MUCH more than just following a ketogenic diet The KETO SMART 10 step protocol is a comprehensive program of self healing Follow the KETO SMART ten easy action steps and soon your thinking mind will become as penetrating as the depths of a pristine alpine lake on a quiet sunny morning The goal of this book is to guide you through the maze of interconnected problems Every step helps but you only get the gold ring of health by following the complete treatment plan It isn't hard if you know what to do It is impossible if you don't

Inclusive Education at the Crossroads Philippa Gordon-Gould, Garry Hornby, 2023-03-09 Inclusive Education at the Crossroads explores the short and long term effectiveness of government plans to reform policy for special needs education confronting difficult questions on policies about inclusion and suggesting alternative ways forward for achieving more effective education of children with special educational needs and disabilities SEND Inclusion has been a central concern for education systems globally for over three decades However has preoccupation with inclusion been at the expense of effective education for children with SEND Where do policies for inclusion lead and do they amount to the special education reform that is needed What do the worldwide experiences of inclusion and special education reveal about how to improve the quality of education systems for all children in the future How effective is provision for children with SEND today Through this informative and topical book Gordon Gould and Hornby shine an interrogating spotlight on current provision for SEND and ask if current legislation and policy inadvertently reinforce problems if they cause many children with SEND to fall short of their potential as well as preventing many schools from improving their levels of overall academic attainment Inclusive Education at the Crossroads provides theory and research for teachers school leaders governors policy makers researchers parents post graduate students and anyone seeking practical solutions to meeting the needs of pupils with SEND in any global context It will encourage open debate about the essence of educational inclusion in order to stimulate creative thinking among all stakeholders

Scientific American, 1885 Monthly magazine devoted to topics of general scientific interest

Who's who in the West, 1998

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