

**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 Grade Practical Memo

**Sir Michael Sadler, Essex (England).  
Education Committee**



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**Practical Guide to Lawyering Skills** Fiona Boyle, 2003 This guide places the theory and practice of lawyering skills in an accessible and practical context The book looks at how skills are taught and assessed both on undergraduate and vocational courses and helps students to see skills as an integral element of law

**Experiment Station Record** United States. Office of Experiment Stations, 1916    Practical Engineer , 1898    **Technical Note** , 1916    The New Practical Reference Library Charles H. Sylvester, William Francis Rocheleau, 1908    Gleanings and Memoranda , 1901    *Nelson's annotated Scotch code, ed. by J. Kerr* Nelson Thomas and sons, ltd, Thomas Nelson & Sons, 1899    **Report of the Committee of Council on Education in Scotland...[without Appendix]** , 1899    **Sessional Papers** Great Britain. Parliament. House of Commons, 1902    **Resources in Education** , 1987    **A Selection of Circular Letters of the Scotch Education Department, 1898-1904, with Explanatory Memorandum** Great Britain. Scottish Education Department, 1904    *The Practical Teacher* , 1882    *The New Practical Reference Library* Charles Herbert Sylvester, Ellsworth D. Foster, 1919    **Nature** Sir Norman Lockyer, 1904    **Cd** , 1905    **Report of the Committee of Council on Education in Scotland** Great Britain. Scottish Education Department, 1903    **Memorandum** , 2001

**Report on Secondary and Higher Education in Essex** Sir Michael Sadler, Essex (England). Education Committee, 1906    *The Record of Technical and Secondary Education* , 1903    *Ohio Practical Farmer* , 1882

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