



SUBJECT and GRADE	Life Sciences Grade 11
TERM 3	Week 3
TOPIC	Human Gas Exchange - Ventilation of the lungs and homeostatic control of breathing
AIMS OF LESSON	<p>At the end of this lesson you should be able to:</p> <ul style="list-style-type: none"><li>• Label drawings of the ventilation system of humans</li><li>• Understand how gaseous exchange takes place in the alveoli</li><li>• Know how gases are transported around the body</li><li>• Understand gaseous exchange in the tissues</li><li>• Know and analyse data of the composition of inspired air vs expired air</li><li>• Know the homeostatic control of breathing</li></ul>
RESOURCES	<p><i>Paper based resources</i></p> <p>Refer to your textbook section on:</p> <ul style="list-style-type: none"><li>• The ventilation of the lungs</li><li>• Exchange and transport of gases</li><li>• Homeostatic control of breathing</li></ul>
INTRODUCTION	<p>Refer to the following sections for background information:</p> <ul style="list-style-type: none"><li>• the structure and functioning of the ventilation system in humans</li><li>• cellular respiration in Grade 11</li><li>• animal tissues in Grade 10</li></ul>
CONCEPTS AND SKILLS	<p>Below are definitions of some of the terms that you will study under this section. Use your textbook and underline all the new terms/words that you encounter while studying through this section. Use the glossary in your textbook to define these new terms/words (Note: At least 2 marks are awarded if you can define a term correctly in a test or examination)</p> <p><b>Diaphragm</b> – The muscular plate which separates the thoracic cavity from the abdominal cavity in humans</p> <p><b>Alveoli</b> – The part of the lungs where exchange of gases takes place</p> <p><b>Bronchi</b> – The two main branches of the trachea</p> <p><b>Intercostal muscles</b> – The muscles found between the ribs and involved in the mechanism of breathing</p> <p><b>Epiglottis</b> – The structure that prevents food from entering the trachea during swallowing</p> <p><b>Haemoglobin</b> – The compound that contains iron and carries oxygen in the blood</p>

# Life Science Caps Grade 11 Term 3

**Daniela Niemeyer**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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