



<p><b>This half term: Skills, Knowledge and Understanding to be developed:</b></p> <p><b>Skills (students <u>WILL BE ABLE</u> to by the end of the Learning Programme):</b> interpret and evaluate the results of investigations into the energy content of different foods; label the parts of the respiratory system</p> <p><b>Knowledge (students <u>WILL KNOW</u> by the end of the Learning Programme):</b> the effects of excess salt, sugar and fat in the diet on health; the functions of fats; carbohydrates, proteins; minerals; vitamins; water and fibre in the diet; what is meant by a balanced diet; structure of the alveolus</p> <p><b>Understanding (students <u>WILL DEMONSTRATE THEIR UNDERSTANDING OF</u>):</b> why we need a respiratory system; the process of breathing; know how the bell jar model of the lungs demonstrates how we breathe and the limitations of the model; how the alveolus is adapted for gas exchange</p>		<p><b>Key Terms / Words:</b></p> <p>Trachea Bronchus Bronchoile Alveolus Diaphragm <b>Intercostal muscle</b> Inspire Expire</p>	
<p><b>LP 3 – Week 1 and 2 Learning Outcomes:</b></p> <p><b>Lesson 3</b> Students will be able to label the parts of the respiratory system and explain why we need a respiratory system</p> <p><b>Lesson 4</b> Students will be able to state the meaning of the terms inspiration and expiration. Students will be able to describe the process of breathing.</p> <p><b>Lesson 5</b> Students will be able to explain how the bell jar model of the lungs demonstrates how we breathe. Students will be able to be able to discuss the limitations of the model.</p>		<p><b>Success criteria:</b></p> <p>Students will answer examination questions requiring them to know the parts of the respiratory system and describe inspiration and expiration.</p>	<p><b>Homework 1</b> <b>LP 3</b> Students will learn the key words</p>
<p><b>LP 3 – Week 3 and 4 Learning Outcomes:</b></p> <p style="color: blue; text-align: center;"><b>Students will apply and demonstrate new knowledge and skills in a mock examination.</b></p> <p><b>Lesson 7</b> Students will be able to describe the structure of the alveolus. Students will be able to explain how the alveolus is adapted for gas exchange</p>	<p>Assessment →</p> <div style="border: 1px solid blue; padding: 2px; display: inline-block;">SA</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">Grade:</div>	<p><b>Success criteria:</b></p> <p style="color: blue; text-align: center;"><b>SA</b></p>	<p><b>Homework 2</b> <b>LP 3</b> Students will revise for the mock examination</p>
<p><b>LP 3 – Week 5 and 6 Learning Outcomes:</b></p> <p><b>Lesson 8</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>Recall the composition of air</li> <li>Describe how to test for carbon dioxide.</li> </ul> <p><b>Lesson 9</b> Students will be able to describe and explain the function of the mucus and cilia in the respiratory system and describe the effects of smoking.</p> <p><b>Lesson 10</b> Will be able to describe what respiration is and recall the word equation for aerobic respiration. <b>Higher Tier Students will also recall that energy is released in the form of ATP.</b></p>	<p>Assessment →</p> <div style="border: 1px solid blue; padding: 2px; display: inline-block;">APP</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">Mark:</div>	<p><b>Success criteria:</b></p> <p>Students will answer examination style questions on gas exchange and smoking</p>	<p><b>Homework 3</b> <b>LP 3</b> Students will revise in preparation for the APP</p>
<p><b>LP 3 – Week 7 Learning Outcomes:</b></p> <p><b>Lesson 11</b> Students will be able to compare aerobic and anaerobic respiration and describe the role and process of anerobic respiration. <b>Higher Tier Students will also be able to recall that anaerobic respiration is a less efficient process than aerobic respiration</b></p> <p><b>Lesson 12</b> Students will be able to evaluate data from an investigation into respiration in germinating peas</p>		<p><b>Success criteria:</b></p> <p>Students will answer examination style questions on aerobic and anaerobic respiration</p>	