

FIRST TERM

WEEKLY LESSON NOTES

WEEK 8

Week Ending: 24-11-2023	DAY:	Subject: Science
Duration: 100mins		Strand: Systems
Class: B9	Class Size:	Sub Strand: Human Body systems
Content Standard: B9.3.1.1 Demonstrate understanding of the blood circulatory system, health problems associated with the system and its relationship with the respiratory system in humans	Indicator: B9.3.1.1.2 Explain the concept of respiration and show how the respiratory and circulatory systems complement each other.	Lesson: 1 of 2
Performance Indicator: Learners can explain the concept of respiration and demonstrate how the respiratory and circulatory systems complement each other.		Core Competencies: Critical Thinking and Problem Solving (CP), Communication and Collaboration (CC) Digital Literacy (DL), Creativity and Innovation
References: Science Curriculum Pg. 102		
New words: Respiration, Respiratory system, Circulatory, Glucose		
Phase/Duration	Learners Activities	Resources
PHASE 1: STARTER	<p>Begin with a thought-provoking question: "Why do you think we breathe, and what do you think happens inside our bodies when we do?"</p> <p>Allow learners to share their ideas.</p> <p>Share learning indicators and introduce the lesson.</p>	
PHASE 2: NEW LEARNING	<p>Explain the concept of respiration</p> <p>Explain how deoxygenated blood from circulation is oxygenated through inhalation for respiration to take place.</p> <p>Define respiration as the process that occurs in our bodies to release energy from glucose and oxygen while producing carbon dioxide and water.</p> <p>Emphasize that this energy is essential for all the body's functions.</p> <p>Explain that the respiratory system, which includes the lungs, is responsible for the exchange of gases. Oxygen is inhaled, and carbon dioxide is exhaled.</p> <p>Discuss the importance of oxygen in the process of respiration.</p> <p>Introduce the circulatory system and its role in transporting oxygen and glucose to cells and removing carbon dioxide.</p>	Pictures and charts

	<p>Explain how the heart pumps blood throughout the body, ensuring that cells receive the necessary oxygen and nutrients.</p> <p>Provide a visual representation or a simple model to demonstrate how the respiratory and circulatory systems work together.</p> <p>Highlight the exchange of gases in the lungs and the transport of oxygen and nutrients through the blood.</p> <p><u>Assessment</u></p> <ol style="list-style-type: none"> 1. What is respiration, and why is it important for our bodies? 2. How does the respiratory system contribute to the process of respiration? 3. Explain the role of the circulatory system in respiration and the transportation of essential substances. 4. Provide an example of how the respiratory and circulatory systems complement each other to support our daily activities 	
<p>PHASE 3: REFLECTION</p>	<p>Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.</p> <p>Take feedback from learners and summarize the lesson.</p>	

Week Ending: 24-11-2023		DAY:	Subject: Science
Duration: 100mins		Strand: Systems	
Class: B9	Class Size:	Sub Strand: Human Body systems	
Content Standard: B9.3.1.1 Demonstrate understanding of the blood circulatory system, health problems associated with the system and its relationship with the respiratory system in humans		Indicator: B9.3.1.1.2 Explain the concept of respiration and show how the respiratory and circulatory systems complement each other.	Lesson: 1 of 2
Performance Indicator: Learners can explain how deoxygenated blood is oxygenated through inhalation for the process of respiration to take place.		Core Competencies: Critical Thinking and Problem Solving (CP), Communication and Collaboration (CC) Digital Literacy (DL), Creativity and Innovation	
References: Science Curriculum Pg. 102			
New words: Respiration, Respiratory system, Circulatory, Oxygenation			
Phase/Duration	Learners Activities	Resources	
PHASE 1: STARTER	<p>Begin with a "Lung Model Exploration" activity. Show a simple model of the lungs and ask learners to observe it.</p> <p>Discuss what they already know about how breathing helps in oxygenating the blood.</p> <p>Share learning indicators and introduce the lesson.</p>		
PHASE 2: NEW LEARNING	<p>Explain the basics of the respiratory system and its role in oxygenating the blood.</p> <p>Present a simple lung model for learners to observe.</p> <p>Engage learners in a discussion about what they already know about how breathing and the lungs work to oxygenate the blood. Use visual aids to depict the process.</p> <p>Provide a detailed explanation of how deoxygenated blood from circulation is oxygenated through inhalation.</p> <p>Use diagrams to illustrate the path of air and exchange of gases in the lungs.</p> <p>Conduct a hands-on demonstration where learners simulate the inhalation and exhalation process to better understand the exchange of gases.</p> <p><u>Assessment</u></p> <ol style="list-style-type: none"> 1. What is the role of the respiratory system in the oxygenation of blood? 2. Can you explain how deoxygenated blood is oxygenated through inhalation? 	Pictures and charts	

	3. Describe the path of air in the respiratory system and how it exchanges gases with the blood.	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	