THIRD TERM
WEEKLY LESSON NOTES
WEEK 7

Week Ending: 11-08-2023	**DAY:**	**Subject:** Science	
Duration: 100mins		**Strand:** Forces & Energy	
Class: B8	**Class Size:**	**Sub Strand:** Complex Machines	
Content Standard: B8.4.4.2 Demonstrate understanding of complex machines and how they work	**Indicator:** B8.4.4.2.1 Identify complex machines and describe their functions in life		**Lesson:** 1 of 2
Performance Indicator: Learners can identify complex machines and describe their functions in life		**Core Competencies:** DL 5.3: CI 6.8: DL 5.1: CI 6.6:	
References: Science Curriculum Pg. 75			

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.	
PHASE 2: **NEW LEARNING**	Recap what simple machines are. Brainstorm learners for the meaning of machine. *A simple machine is any device that allows work to be done easier and faster*. In groups learners give examples of simple machines and describe its uses. For example, a pair of scissors can be used to cut a piece of cloth easier and faster than tearing it with your hands. The use of the scissors saves us time and energy that can be used for other things as well. Other examples include plier, spanner, hammer, wheelbarrow, screw driver, crow bar, etc. Introduce the concept of complex machines as advanced systems that consist of multiple simple machines working together. Explain that complex machines are designed to perform more sophisticated tasks compared to simple machines. Discuss how complex machines combine the functions of different simple machines to achieve their purposes. Show visuals or models of various complex machines (e.g., an automobile, a computer, an airplane). Ask learners to identify the simple machines within these complex machines. Discuss the identified simple machines and their respective functions.	Pictures and charts

	<u>Assessment</u> 1. What is a complex machine? 2. How are complex machines different from simple machines? 3. Can you give an example of a complex machine and identify the simple machines within it? 4. Why do complex machines require multiple simple machines to work together? 5. How do complex machines perform more sophisticated tasks compared to simple machines?	
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.	

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Content Standard: B8.4.4.2 Demonstrate understanding of complex machines and how they work	**Indicator:** B8.4.4.2.1 Identify complex machines and describe their functions in life	**Lesson:** 1 of 2
Performance Indicator: Learners can explain how the functions of a complex machine can improve the quality of life.	**Core Competencies:** DL 5.3: CI 6.8: DL 5.1: CI 6.6:	
References: Science Curriculum Pg. 75		

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.	
PHASE 2: **NEW LEARNING**	Discuss how complex machines play a crucial role in various aspects of everyday life. Explain that complex machines are designed to make tasks easier, more efficient, and more precise. Highlight the impact of complex machines on transportation, communication, manufacturing, and other sectors. Provide examples of complex machines such as smartphones, medical equipment, or power plants. Ask learners to identify and discuss the specific functions of these complex machines. Prompt learners to explain how these functions contribute to improving the quality of life. Divide learners into small groups. Assign each group a case study of a complex machine (e.g., a robotic arm used in assembly lines, a GPS navigation system). In their groups, learners should analyze the functions of the assigned complex machine and discuss its impact on society and daily life. <u>Assessment</u> 1. What are some examples of complex machines that you encounter in your daily life? 2. How do complex machines improve efficiency and precision in various sectors such as transportation or manufacturing?	Pictures and charts

	3. Choose one specific complex machine (e.g., a smartphone, a medical scanner) and explain how its functions contribute to improving the quality of life. 4. Can you think of any potential drawbacks or challenges associated with complex machines? 5. How do complex machines impact society as a whole and our daily lives in particular?	
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.	