## TERM THREE WEEKLY LESSON NOTES WEEK 3

Week Ending: 30 <sup>th</sup> SEPT, 2022		DAY:		Subject: Science			
Duration: 60mins				Strand: For	ces & Energy		
Class: B7		Class Size:		Sub Strand: Force & Motion			
B7.4.4.1 Examine the concept of motion, Newton's first law of motion, magnetic force in relation to motion and			Indicator: B7.4.4.1.1 Understand that unbalanced forces acting on an object cause it to move.			Lesson: I of 2	
					Core Competer DL 5.3: CI 6.8: DI		
References: Science Cu	ırriculum F	Pg. 33-34					
New words: balanced, un	nbalanced, f	orce					
Phase/Duration PHASE 1: <b>STARTER</b>		Activities mers out of the class			lav, tha are set of	Resources	
	<ul> <li>tag of war.</li> <li>Did you enjoy the game?</li> <li>How is the winner determined in this game?</li> </ul> Share learning indicators and introduce the lesson.						
PHASE 2: NEW LEARNING	<ul> <li>Fill a bucket full with sand. Place the bucket of sand on floor and call learners in turns to push the bucket with one finger.</li> <li>Let learners discuss their observation.</li> <li>Drill learners on the correct pronunciation and meanings of the terms.</li> <li>Balanced forces are forces that are equal in size and opposite in direction. Balanced forces do not result in any change in motion.</li> <li>Unbalanced forces are forces applied to an object in opposite directions that are not equal in size. Unbalanced forces result in a change in motion.</li> <li>Friction. The force that opposes the motion of two objects that are in contact.</li> <li>Explain to learners that when you pushed the heavy bucket with a small push, the bucket did not move. The frictional force balanced the small pushing force.</li> <li>Call learners again to push the bucket with their two hands. Now it could be observe that, when a larger force was applied, the bucket moved. The pushing force was now greater than the friction. Since the forces were unbalanced, the bucket moved.</li> </ul>					Batteries Torch Switch Radio, Charts and drawings sh owing energy conversion	

	<ul> <li>Guide learners to conclude that when one force is greater than another, the forces are said to be unbalanced. If the forces acting on an object are unbalanced, this is what happens: <ul> <li>An object at rest start move.</li> <li>A moving object stop, or change the direction and speed of the object.</li> </ul> </li> </ul>
	Assessment
	Define the following
	i. Balanced force
	ii. Unbalanced force
	iii. Friction
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.
	Homework
	How is Kojo able to push a wheel barrow full of sand from his
	house to the site?

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Class: B7 Class Size:				Sub Stran			
<b>Content Standard:</b> B7.4.4.1 Examine the concept of motion, Newton's first law of motion, magnetic force in relation to motion and understand their applications to life				ator: 4.1.2 State and explain Newton's Law of motion		Lesson: I of 2	
Performance Indicator: Core Compete				Core Competen DL 5.3: CI 6.8: DL			
References: Science Cu	ırriculum F	Pg. 33-34					
New words: newton, ine	ertia, motio	n					
Phase/Duration		Activities				Resources	
PHASE I: <b>STARTER</b>	Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.						
PHASE 2: NEW LEARNING	<ul> <li>Pick a ball and perform these activities; <ol> <li>Place the ball at a stationary position on the teachers table.</li> <li>Roll the ball on the ground from end to end of the class</li> </ol> </li> <li>Let learners write down their observations for discussion.</li> <li>Guide learners to state Newton's first law of motion. Newton's First Law of motion states that an object at rest will stay at rest, and an object in motion will continues in a uniform motion in a straight line unless it is acted upon by some external force to act otherwise.</li> <li>It is also called the law of inertia.</li> <li>In groups, learners discuss the types of inertia.</li> <li>Inertia of rest: An object stays where it is placed, and it will stay there until you or something else moves it</li> <li>Inertia of motion: An object will continue at the same speed until a force act on it.</li> <li>Inertia of direction: An object will stay moving in the same direction unless a force acts on it.</li> </ul> Guide learners to demonstrate Newton's first law of motion. A book kept on a table remains placed at its place unless it is displaced. Similarly, a ball rolling on a horizontal surface keeps on running unless an external force stops it.				Batteries Torch Switch Radio, Charts and drawings showing energy conversion		

	In groups, learners research the occurrence of things around us using Newton's first law of motion. Example: Car air bags: The function of the air bag is to inflate in an accident and prevent the driver's head from hitting the windshield.	
	<u>Assessment</u>	
	State and explain Newton's first law of motion.	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Homework	
	Learners research the occurrence of some of the things around us	
	using Newton's first law of motion.	