BASIC 7

WEEKLY LESSON PLAN – WEEK 5

Learning Indicator(s)	B7.4.4.2		
Performance Indicator	B7.4.4.2.1 Identify simple machines		
Week Ending	14-10-2022		
FORM	B.S.7		
Subject	Integrated Science		
Reference	Curriculum, Teachers Resource Pack, Learners Resource Pack.		
Teaching / Learning Resources	Textbook, Word Chart, Pictures.		
DAYS	**PHASE 1 : STARTER**	**PHASE 2: MAIN**	**PHASE 3: REFECTION**
MONDAY **10-10-2022**	Assist Learners to explain a Simple Machine.	1. Discuss with Learners examples of Simple Machines. 2. Learners brainstorm to explain the use of each Simple Machines mentioned. **Examples of Simple Machines;** 1. **Norias.** They allow the extraction of water through the fundamental principle of the hydraulic rosary. It is placed partially submerged and through continuous movement enables the extraction of water. 2. **Water pumps.** Device that lifts, transfers and compresses liquids. Use the fundamental principles linked to pressure. 3. **Cranes** By means of the lever effect it manages to lift weight by means of a beam, thus making less amount of force, manipulating it with pulleys on a rotating pivot that allows horizontal movement. The stability of the crane	**Core Competencies;** 1. Digital Literacy (DL) 2. Communication and Collaboration

		makes it indispensable for the construction industry. 4. **Slide.** It uses the fundamentals of the simple 'inclined plane' machine, where potential energy is used, the concepts of speed and acceleration are involved, and it is assumed that there is no friction force (or that this is minimal). 5. **Up and down.** The lever effect is combined in this popular game with the inclined plane, uniting two simple machines in one, and taking advantage of the weight and the force of gravity at the same time, based on a point of support, before the action of force. and the reaction of a resistance. 6. **Wheelbarrow.** Common in the construction area, managing to distribute the weight by directing it towards the rim, which makes it possible to support a much greater weight with the sole effort of pushing the truck. 7. **Gear.** Cogwheel that makes an object move faster or slower, by manipulating the force necessary to move it. 8. **Turnstile.** Combination of a crank and a cylinder, which allows a heavy body to be lifted by means of a much lower force. 9. **Axe.** Essential to separate or lacerate (firewood, for example), it has a piece of metal finished in the shape of a wedge, which is what tears and allows cutting. 10. **Pair of scissors.** Typical example of a simple lever, which combines strength and power to achieve its task, that of cutting by joining the two steel blades. 11. **Cistern.** Use the pulley to raise or lower the bucket, thus raising the mass of water through the transformation of energy.	

THURSDAY **03-10-2022**	Learners individually brainstorm to identify a type of Simple Machine.	1. Discuss the 6 types of Simple Machines with the Learners. 2. Assist Learners to state examples of each type of Simple Machine. **Types of Simple Machine and Examples;** • Pulley: blinds, garage doors, flag poles. • Lever: see saw, pry bar, lever action door latches. • Wedge: scissors, screw ,a knife. • Wheel and axle: office chairs, carts, wheeled carry-on luggage and toy cars. • Screw • Inclined Plane. 	**Core Competencies;** 1. Ability to ascertain when information is needed and be able to identify, locate, evaluate and effectively use them to solve a problem **2.** Speak clearly and explain ideas