WEEK ENDING......02/12/2022.....

SUBJECT...INTEGRATED SCIENCE

REFERENCE...SYLLABUS(CRDD,2007), SCIENCE FOR JHS

FORM......BASIC 8......WEEK.....12.....

DAY/DURATION	ON TOPIC/SUB- TOPIC/ASPECT K K		<u>TEACHER-</u> <u>LEARNER</u> ACTIVITIES	T/L MATERIALS	CORE POINTS	EVALUATION AND REMARKS	
TUESDAY 29-11-2022 1:20PM - 2:40PM 80min	Topic; Machines Sub-Topic; Meaning of Machine and examples of Simple machines.	By the end of the lesson the Pupil will be able to; i. explain the term machine. ii. give examples of simple machines RPK Pupils use simple machines at home and in school.	Introduction; Review Pupils knowledge on the previous lesson. Activities; 1. Pupils in small groups to discuss the meaning of Machine. 2. Assist Pupils to mention examples of simple machines. Closure Through questions and answers, conclude the lesson.	Pair of Scissors, Wheel barrow, knife, Pictures.	The definition of a simple machine is any device with little or no moving parts that are used to modify both motion and magnitude of force applied to an object to perform work. There are six simple machines; 1. Planes 2. levers 3. wheel 4. axles 5. pullies 6. wedges 7. screws. Simple Machine Examples Ever - Scissors Ficined Plane - Silde Ficined Plane - Silde	Exercise; 1. What is a Machine? 2. State 5 examples of Simple Machines.	

THURSDAY	Topic;	Objective;		Introduction;		Energy and work	Exercise;	
01-12-2022	Machinac	By the end of t	the	Pupils brainstorm		When a force causes a body to move work is being	1.	Explain the
	Sub-Topic:	able to;		meanings of work,		done on the object by the force. Work is the	of the	of the
8:05AM - 9:15AM	Work Enorgy and	i. ex	xplain the	Activiti	inc.	an object through a distance (d).	i.	Work
	Power.	ii. ex ii. ex ii. ex W In W Ou ar Ef as ap	rork, nergy and ower. xplain /ork pput, /ork utput nd fficiency" s they pply to	2.	Discuss the meanings of Work input, work output and Efficiency. Pupils brainstorm to explain how to care for	So when work is done, energy has been transferred from one energy store to another, and so: energy transferred = work done Energy transferred and work done are both measured in joules (J). Calculating work done The amount of work done when a force acts on a body depends on two things:		Power. State the formular for calculating Work, energy and Power.
		m iii. ou ca m RPK Pupils were ta lessons on Wo basic 6.	nachines. utline ow to are for nachines. aught ork in	3. Closure Pupils i practic for wor using fo	machines. Pupils individually brainstorm to state the formula for calculating Work. e n groups to e calculating rk done prmula.	 the size of the force acting on the object the distance through which the force causes the body to move in the direction of the force The equation used to calculate the work done is: work done = force × distance W=F×d This is when: work done (W) is measured in joules (J) 	REMARKS	RKS

		 force (F) is measured in newtons (N) 	
		 distance (d) is in the same direction as the 	
		force and is measured in metres (m)	
		In this example, a force of 10 N causes the box to	
		move a horizontal distance of 2 m, so:	
		W=F×d	
		W=10×2	
		W=20 J	
		W= F x d	
		W=10- x 2	
		W= 20J	