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COMPET ENCE	GENERAL OBJECTIVES	N O N T H	W E E K	MAIN TOPIC	SUB-T OPIC		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
By the end of Form Two course, students should be able to understand concepts By the end of the Form Two course, students should have develop competence in applying and magnetism	J A N U A R Y		1.0 STATIC ELECTRICIT Y	1.1 Concept of static electricit y.	2	i) Lead students on demonstration of picking up of tiny pieces of papers by plastic pens and other materials.	i) Demonstrate picking up tiny pieces of paper.	-Plastic pen -Ebonite rod -Glass rod -Fur		Are the students able to explain the concept of statistic electricity?		
and principles of magnetism and electricity.	knowledge in daily life. - Electricity		3				ii) Organize for read-review on origin of charges.	-Discuss the origin of charges.			Is the student able to explain the origin of charged?	
							iii) Organize for discussion on charge movement when two bodies are rubbed each other.	iii) Students should identify two types of charges on a body.	-Ebonite rod -Fur -Polytheme rod -Glass rod.		Is the student able to identify two types of charges.	
							iv) Demonstration of attraction and repulsion between the suspended rod and other bodies.	-Students to charge bodies by different methods.	Pieces of paper -plastic pen -Glass rod -Ebonite rod -Polytheme rod.	Physics Book 2 TIE	Is the student able to state the fundamental law of static electricity?	

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	II. FORIVI I VVO			-		_		•		Subject. I		
							Guide students to state fundamental law of static electricity.					
COMPET ENCE	GENERAL OBJECTIVES	M O N T H		MAIN TOPIC	SUB-T OPIC	F F I ()	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
			3		1.2 Detectio n of charges	2	i) To describe the structure and function of gold leaf electroscope.	i) Students to draw and label gold leaf electroscope.	- Gold leafs electroscope - Diagram of g/l electroscope		Is the student able to describe the structure of the leaf electroscope?	
							ii) Lead the discussion of the modes of action of electroscope.	ii) charge the electrophorus by induction using charged polythene baseCharge a gold leaf by induction and contact method using positively charged electro phorus	- Charged polythene base - Electrophorus	Physics Book 2 TIE	Is the student able to charge leaf electroscope?	
			4		1.3 Conduct ors and Insulato rs	2	i) Lead students to distinguish between Insulator and Conductor ii) Lead the students to explain the difference between electrical conductivities of Conductors and Insulators.	i)Students to identify conductors and Insulators by passing electric current through them.	- Copper wire - Aluminium - Glass rod - Ebonite rod - Wood - Fur, Wax.		Is the student able to distinguish between a conductor and insulator?	

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GENERAL OBJECTIVES	M O N T H	W E E K	MAIN TOPIC	SUB-T OPIC	1 1	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
	F E B	4		1.4 Gapacit ors.	i) Lead the students to define the capacitance of a body.	i) Students In groups to give the meaning of capacitance.	-Source of charge -Copper electrodes.	Physics for ZNZ sec school	Is the student be able to -define capacitance		
	U A R Y	5	5			Mode of action of	i) Demonstrate charge and discharging of a capacitor.		1 & 2 of a cap e of physics 6th cap Edition ls t able equipment of the cap serior cap serior cap e cap serior	-describe mode of action of a capacitor -List different	
						iii) Explain the construction of air capacitor	ii) Carry out a project to construct an air capacitor.	Air filled capacitorsTwo or more capacitors -Connecting wire		Is the student be able to derive equivalent capacitors in series and in parallel.	
	GENERAL	GENERAL M OBJECTIVES O N T H F E B R U A R	GENERAL M W OBJECTIVES O E N E T K H F E 4 B R U A R	GENERAL M W OBJECTIVES O E MAIN N E TOPIC T K H F E 4 B R U A R	GENERAL M W O E MAIN SUB-T N E TOPIC OPIC T K H F E 4 Capacit ors.	GENERAL M W OBJECTIVES O E MAIN SUB-T OPIC T K H SUB-T OPIC OPIC SUB-T OPIC S	GENERAL OBJECTIVES O E MAIN N E TOPIC T K H SUB-T OPIC T T SUB-T T E TEACHING ACTIVITIES	GENERAL OBJECTIVES N E TOPIC T K H SUB-T OPIC T K C Capacit ors. 1.4 Capacit ors. 1.5 Describe the Mode of action of capacitance. 1.6 Mode of action of capacitor. 1.7 Describe the Mode of action of capacitor. 1.8 Demonstrate charge and discharging of a capacitor. 1.9 Demonstrate charge	GENERAL OBJECTIVES O E N E TOPIC T K H F Capacit ors. 1.4 Capacit ors. I) Describe the Mode of action of capacitor. Ii) Demonstrate charge and discharging of a capacitor. Iii) Lead students to identify difference types of capacitors. Iii) Explain the construction of air capacitor. Iii) Carry out a project to construct an air capacitors. -Two or more capacitors -Two or more capacitors -Connecting	GENERAL OBJECTIVES O E T K H TOPIC OPIC OPIC OF T K H SUB-T TOPIC OPIC OF T T K TOPIC OPIC OF T T C T T C T T T T T T T T T T T T T	GENERAL OBJECTIVES OBJ

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COMPET	GENERAL OBJECTIVES	M O N T H	E K	MAIN TOPIC	SUB-T OPIC	F F I ()	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
							iv) To guide students to determine the equivalent capacitance of two or more capacitors connected in series and in parallel by derivation.	iii) Students to derive equivalent capacitance of two or more capacitors connected in series and in parallel.			u	
			6		1.5 Charge distributio n along the surface of a conductor	2	The teacher to guide students on experiment to demonstrate charges reside on outer surface of a conductor.	Students to verify experimentally that charges resides on outer surface of a conductor.	ElectrophorusSphericalconductorPear shapedconductor.		Is the student be able to recognize on a conductor reside on its outer surface.	
			6			4	The teacher to lead students to carry out an experiment to find out the distribution of charges on various shapes of conductor.	Students to discuss in groups the result of their observations.	- Cylindrical and pear shaped conductor.			

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COMPETE NCE	GENERAL OBJECTIVES	M O N T H	W E E K	MAIN TOPIC	SUB-T OPIC	F F I ()	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFER ENCES	ASSESSMENT	REMARK S
							To organize jigsaw presentation on the phenomena of lightning conductor.	Students to participate in presentations on phenomena of lightning.	- Chart showing light.		- Is the student be able to explain the phenomenon of	
							Use questions and answers to high light the structure and mode of action of lightning conductor.	Students to discuss in groups the structure and mode of action of lightning conductor.	-Lightning conductor mode. - Copper rod - Copper plate - Copper wire - Sharp pointed conductor		lightning? - Is the student be able to explain the mode of action of lightning conductor?	
		F E B R U A R Y	6	2.0 CURRENT ELECTRICITY	2.1 Concept of current Electricity	3	i) The teacher to lead the students to define current electricity. ii) The teacher to lead students through question and answer to identify the sources of electricity.	i) Students in groups to define current electricity. ii) Students to discuss in groups the different sources of electricity.	- Charged capacitor - Uncharged capacitor - Dry cell - Dynamo - Solar panel	Physics Book 2 TIE	- Is the student be able to identify basic circuit components State the SI unit s of current, voltage and resistance.	

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COMPET ENCE	GENERAL OBJECTIVES	N O N T H	E E K	MAIN TOPIC	SUB-T OPIC		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		F E	7 - 7		2.2 SIMPLE ELECTRIC CIRCUIT	8	i)The Teacher to lead students to discuss different circuit components.	i) Students in groups to list down circuit components.	- Battery - Cell - Resistor - Switch - Connecting wire.			
		B R U A	8				ii)The teacher to guide students to identify basic electric symbol.	ii) Students through information searching is to identify basic electric symbols.	- Ammeter - Volt meter - Circuit components			
		RY	9				iii) To guide students to state the SI units of current, voltage and resistance.	iii) Students to discuss and present units of current, voltage and resistance.	- Reference books			

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COMPET ENCE	GENERAL OBJECTIVES	M O N T H	E K	MAIN TOPIC	SUB-T OPIC	 TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
					Series and parallel connecti ons.	iv) To give the guidelines on how to connect series and parallel circuits	iv) To connect circuit in series and parallel	- Bulb - Bulb holders - Battery - Switch		Is the student able to connect simple electric circuit?	
					UIIS.	v) To guide the students on how to connect an ammeter and voltmeter	v) In groups take reading of current and voltage.	- Resistor - Ammeter - Voltmeter - Connecting wires		Is the student able to:Measure electric current and voltage?	
					Ohm's law	vi) Perform an experiment to Verify Ohm's Law vii) Through inquiry deductive to guide students to deduce the equivalent resistance for both parallel and series connections.	vi) To Verify Ohm's law vii) To deduce equivalent resistance. viii) To deduce the amount of current flowing in a given circuit and voltage drop across.	- Circuit diagrams.		-To analyse simple electric circuits.	

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COMPET GENERAL M W F ENCE OBJECTIVES O E MAIN SUB-T E N E TOPIC OPIC F	LEARNING ACTIVITIES	T/L R	REFE ASSESSMENT	
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end of of Form Two the course, Form students Two should be course, able students understand should concepts have and	The teacher to assign students library and or internet search to find out the origin of magnetism. The teacher to display different types of magnetic and non-magnetic materials and organise for their testing on magnetic behaviour. Students in groups using gallery walk to discuss the origin of magnetism. Students to identify magnetic and non magnetic materials.	- Iron rod te - Cobalt plate Jur	Is the student able to explain the origin of magnetism. In the student be able to identify magnetic and non magnetic materials/substances?	

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		M A R C			3.2 Magneti sation and demagn etisation	5	The teacher to display various types of magnets and direct students to name them. The teacher to lead	Students to identify the types of magnets. The students to	U- shaped magnets.Bar magnetHorse-shoe magnet.String		Is the student able to identify types of magnets?	
			10				students to investigate the properties of a magnet. Teacher assign students through library search to explain the concept of magnetisation and demagnetisation.	suspend a bar magnet to find its direction at rest. Students to present their findings.	 Support Iron filling Various types of magnets. Chart Internet Bar magnet Iron nails 		be able to tell the properties of a magnet? Is the student able to explain the concept of magnetization and demagnetization?	
				1:	1 – 12	M	IDTERM EX	AM/MIDT	ERM B	REA	K	
		N A R C H	13				The teacher to assign students to do library or internet search on applications of the earth's magnetic field.	Students in groups discuss their finding on application of the earth's magnetic field.	- Library - internet			

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ENCE	OBJECTIVES	O N T H	E E K	MAIN TOPIC	SUB-T OPIC		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIALS	REFE RENC ES	ASSESSMENT	REMAR KS
		M A R C H	13		3.3 Magneti c fields of magnet	4	- The teacher to stimulate discussion on how a magnet can lose its magnetisation. -Teacher to guide students to mention methods of storing magnetism. The teacher to lead students to perform an experiment to study the pattern of the lines of force around a bar magnet. -The teacher , by using question and answer technique, to lead students to identify lines of force.	-Students to identify ways in which a magnet lose its magnetism. To explain the methods of storing magnets. Students to plot the pattern of lines of forces around a bar magnets. -Students to demonstrate that the lines of force are closer together where the field is stronger. Students to explain the concept of magnetic	- Bar magnet - Iron filling - Plain paper - Pencil - Compass needle.		Is the students able to design methods of storing magnets? Is the student table to illustrate the magnetic lines of forces around a magnet using iron fillings or compass needle?	
								fields.				

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					3.4 Earth's magnetic field	3	The teacher to lead students to explain the existence of the earth's magnetic field.	Students in groups to explain the phenomenon of earth's magnetism	- Compass needle - Thread Retort stand - World globe		Is the student be able to -Explain the existence of		
							The teacher to lead students to determine the direction of the earth's magnetic field.	Students to suspend bar magnetic freely to determine the direction of the earth's magnetic field.	- Bar magnetic - Iron fillings		earth's magnetism -Determine the direction of earths magnetic field.		
							The teacher to assist students to locate the earth's magnetic lines of force about a bar magnet.	Students to use iron filling to locate the earth's magnetic lines of force about a bar magnet.	- Compass needle - Protector - Scale - support		- Locate the lines of a force about a magnet.	of a force about a	
							To guide students to determine the angle of declanation and inclination.	Students to measure the angle made by the settled needed with respect to the horizontal plane.	-				

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			13			5	Demonstration how to shied a magnetic material from magnetic line of force.	Demonstrate practically how to shield a magnetic material from magnetic lines of force.	- Soft irony magnet.	Principle of Physics		
			14					-Discuss the importance shielding equipment.				
			14	4.0 FORCE IN EQUILBRI UM	4.1 Movem ents of a force	5	Lead students to explain the existence of the earth's magnetic fields.	In group to explain the phenomenon of the earth's magnetic field.	-			
			15									
		A P R I L					MID -	-TERM BREAK				

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						4	The teacher to guide students to perform activities of pulling or pushing objects and observe the results. Lead students to	Students to apply simultaneously parallel and opposite force on difference objects.	- Hinged window - Hinged door - Suspended piece of wood - Students' desk - Metre ruler		Is the student be able to explain the effects of turning force	
		A	16		4.2		determine the moment of force.	of force.	- Strings - Two different masses.		to determine the moment of a force?	
		RI L			Centre of gravity.		Guide students to determine the centre of gravity of a regular shaped body.	Determine the centre of gravity of regular shaped body.	-		Is the student able to explain the centre of gravity and to determine the centre of gravity of regular shaped body?	
							Guide students to conduct experiment to verify the principle of moments.	To state the principle of moments.	- Variety masses.		Is the student able to state the principle of moment?	

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							Lead the students to apply the principle of moments.	Explain how the principle of moments is applied in different situations.	- Seesaw - Bean balance - Door		Is the student able to apply the principle of moments in daily life?	
COMPET ENCE	GENERAL OBJECTIVES	O N T H	E	MAIN TOPIC	SUB-T OPIC	H	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		A P RI L Y	17			4	Organise students gallery walk presentation on the meaning of centre of gravity. Assign students to determine the centre of gravity of an irregular shaped body.	Explain the meaning of centre of gravity. Determine the centre of gravity of an irregular body.	- A piece of irregular shaped - Plumb line - Support nail	Physics for 2N2 sec School Book 1 & 2	Is the student able to determine the centre of gravity of an irregular body?	
		M A Y	18		4.3 Types of equilibri um	4	Lead students to brain storm on the condition for equilibrium. Lead students to identify three states of equilibrium.	Explain the conditions for equilibrium. Explain stable, unstable and neutral equilibrium.	- Solid objectives - various shaped - model of a bus or lorry.		Is the student able to explain the conditions for equilibrium? Is the student able to explain and apply stable, unstable and	

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							Lead students to apply conditions of stable unstable and input equilibrium in daily life.	Identify application of the three states of stability in daily life.			neutral equilibrium?	
COMPET ENCE	GENERAL OBJECTIVES	0 N T H	E	MAIN TOPIC	SUB-T OPIC	F F I (TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		M A	19	5.0 SIMPLE MACHINE S	5.1 Concept of simple		Lead students to deduce the meaning of simple machine.	To explain the concept of a simple machine.	-		Is the student able to identify different kinds of simple	
		Y			machin e	4	- Facilitate the students to deduce the meaning of the term. Load, Effort mechanical advantage velocity ratio and efficiency as applied to simple machine. -To stimulate students to identify different kinds of simple machine.	Students in groups to mention different types of simple machines.	 Bolts and nuts Spanners Single fixed pulley. Masses Stapler Rope. 		machines?	

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			(2	0 – 21)								
COMPET ENCE	GENERAL OBJECTIVES	M O N T H	E E	MAIN TOPIC	SUB-T OPIC	F F I ()	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		M A Y	22		5.2 Levers	5	To facilitate students to identify three classes of levers. Guide students to determine the M.A, V.R and efficiently of a levers. To organize students to discuss application of levers in daily life.	Students in groups to identify the three classes of levers. Students in group to perform experiment to determine the M.A, V.R and efficiency of a lever. Students to discuss applications of levers in daily life.	- Beam balance - Crow bar - Wheel barrow - Scissors - See-saw - Coal tong.		Is the student able to identify three classes of levers? Is the student able to determine the M.A, V.R and efficiency of a lever? Is the student able to use levers in daily life?	
			23		5.3 Pulleys	3	To guide students to identify different pulley system.	To identify the different pulley systems.	Single fixed pulleyMovable and tactics pulley		Is the student able to determine M.A, V.R and efficiency of pulleys and apply in daily life?	

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				Guide students to determine	Calculate the M.A. V.R and	- Rones			

Ciass/Streat	II. FURIVI I WU									Subject. I	1113163	
Class/Streat	II. PONIVI I WO						Guide students to determine the M.A , V.R and efficiency of a pulley systems. Organize for a field visit by students to observe application of pulley system.	Calculate the M.A, V.R and efficiency of the pulley system. Discuss results of the field visit and identify other possible application of	- Ropes - Flip charts - Marker pens.	Jubject. 1	THISTCS	
COMPET ENCE	GENERAL OBJECTIVES	N O N T H	E	MAIN TOPIC	SUB-T OPIC	F E I C	TEACHING ACTIVITIES	pulley system. LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		JUNE	24		5.4 Inclined Plane	3	Lead students to discuss why it is easier to push a heavy load up an inclined plane than to lift it vertically. To facilitate students to determine M.A, V.R and efficiency.	To determine the M.A, V.R and efficiency of the inclined plane.	- Ladder - Building slopes - Screw jack - Car jack - Heavy load	Physics Book 2 TIE	Is the student able to state the concept of inclined plane? -Are they able to determine M.A, V.R and efficiency of inclined plane. Is the student	
							applications of inclined plane in daily life.	discuss situation where the inclined plane is applied in everyday life.	- Screw Jack - Car jack		able to use inclined plane in daily life?	

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									Jubject. I	1113103	
		25		5.5 Screw Jack		To organize students the main features of the screw Jack and the way it functions.	Practice lifting a heavy load using a screw jack.	- Car - Screw jack - Wheel and axle - bicycle		Is the student able to describe the structure of a screw jack?	
					3	To facilitate students to discuss the applications of the screw jack in daily life.	Discuss in groups the various situations where the screw jack in used.			Is the student able to determine M.A,	
						Display a wheel and axle of a bicycle.	- In groups students to discuss the main features of a wheel and axle			V.R and efficiency of screw jack?	
							-Use screw jack in daily life.			-Can student use screw jack on daily life?	
GENERAL OBJECTIVES			MAIN TOPIC	SUB-T OPIC	F F F F F F F F F F F F F F F F F F F	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		25		5.6 Wheel and axle	3	To guide students to determine M.A, V.R and efficiency of a wheel and axle.	To determine the M.A, V.R and efficiency of the wheel and axle.	- Heavy load.		Can the student able to describe and determine the M.A, V.R and	
	_	GENERAL M	GENERAL M W OBJECTIVES O E N E T K H	GENERAL M W OBJECTIVES O E MAIN TOPIC T K H	GENERAL OBJECTIVES O E MAIN TOPIC T K H SUB-T OPIC T K H STOPIC 5.5 Screw Jack SUB-T OPIC 5.6 Wheel	GENERAL OBJECTIVES O E MAIN SUB-T OPIC T K H S.5.6 Wheel	GENERAL OBJECTIVES O E T H H SUB-T T T K H SUB-T T S C S C C Wheel and axle and axle SLB-T T S T S C S C C S C T T S C S C T T S C S C	25 S.5 Screw Jack To organize students the main features of the screw Jack and the way it functions. Practice lifting a heavy load using a screw jack.	25 S.5 Screw Jack S.5 Screw Jack Screw Jack To present the war in features of the screw Jack and the way it functions. Practice lifting a heavy load using a screw jack. Wheel and axle Screw Jack and the way it functions. Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Practice lifting a heavy Load using a screw Jack Lo	Screw Jack Ja	Screw Jack Screw Jack Screw Jack Screw Jack To organize students the main features of the screw Jack and the way it functions. Discuss in groups the various situations where the screw jack in used. Discuss the applications of the screw jack in used. Discuss the main features of a wheel and axle of a bicycle. Display a wheel and axle of a bicycle of a screw jack in used. Can student able to describe and determine of the way a students to determine of the wheel and axle. Display a students of a screw jack on discuss the main features of a wheel and axle of a bicycle of a screw jack. Display a students to discuss the main features of a wheel and axle of a bicycle of a screw jack. Can student able to describe and determine of a screw jack on discuss the main features of a wheel and axle of a bicycle of a screw jack on discuss the main features of a wheel and axle of a bicycle of a screw jack on d

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			26		5.7 Hydrauli c Press	3	Display model of the hydraulic press and guide students to discuss its working mechanism. To guide students to determine the M.A, V.R and efficiency of a hydraulic press. Lead students to discuss on applications of the hydraulic press.	To discuss in groups structure of a hydraulic press. To determine the M.A, V.R and efficiency of the hydraulic press. Discuss in groups of hydraulic press and identify example of devices.	Model of hydraulic press.		Is the students able to describe the structure of hydraulic press? -Is the student able to determine M.A, V.R and efficient of hydraulic press? -Can students apply hydraulic press in daily life?	
COMPET ENCE	GENERAL OBJECTIVES	0 N T H	W E E K	MAIN TOPIC	SUB-T OPIC		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
			27	6.0 MOTION IN STRAIGHT LINE	6.1 Distanc e & displace ment	1	Guide students to distinguish between distance and displacement Displayed various flash cards with SI Units, one of which has the correct SI unit of distance and displacement.	-Give the difference between distance & displacementState SI units of distance & displacementIdentify SI unit of distance & displacement.	- Tape measure - Marker - Reference books - Flash card.		Is the student able to distinguish between distance and displacement? -Is the student able to state the SI Unit of distance and displacement?	

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		J U N E	27		6.2 Speed and velocity	3	Assist students to distinguish between speed and velocity.	Distinguish between speed and velocity	- Timer - Measuring tape - Internet - Reference Books.		Is the student able to distinguish between speed and velocity?	
		J U L Y					Organize think pair share on the SI units of speed and velocity.	To state the SI unit of speed and velocity.				
							Stimulate students to determine average velocity of a body.	To determine average velocity of the body.	- Speed metre - Timer - Measuring tape			
COMPET ENCE	GENERAL OBJECTIVES	0	l	MAIN	SUB-T		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE	ASSESSMENT	
		T H	E K	ТОРІС	OPIC		TEACHING ACTIVITIES		MATERIAS	RENC ES		REMAR KS

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							constant velocity and decreasing velocity. To guide students to discuss the velocity time graph. Lead student to explain the concept of retardation.	Students to determine acceleration of the body. Students to explain the concept of retardation.	- Trolley - Ticker tape - Timer - Velocity -time graph.	Abort and Principles of Physics.	Can student determine the acceleration of a body? -Is the student able to explain the concept of retardation?	
COMPETE NCE	GENERAL OBJECTIVES	O N T H	W E E K	MAIN TOPIC	SUB-T OPIC	F F I C	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFER ENCES	ASSESSMENT	REMAR KS
) O F A \	28		6.4 Equatio ns of unifor mly Acceler ated Motion	3	The teacher to facilitate students to apply deductive thinking to derive equations of uniformly accelerated motion. To motivate students to share their ideas on a body thrown vertically upwards and a falling body.	Students to derive equations of uniformly accelerated motion. Students to solve problem related to equations of uniformly acceleration motion.	- Kinematic reference books Velocity time graphs for uniformely accelerated motion - Bank of Kinematics equations		-Is the student able to derive equations of uniformely accelerated motion? -Is the student able to apply equations of motion in daily life?	

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		O C T O B E R			6.5 Motio n under gravity	3	To encourage students to share their ideas on a body thrown vertically upwards and a falling body. To organize students to determine acceleration due to gravity by simple pendulum.	Students in groups to explain the concept of gravitational force. To perform an experiment on determination of acceleration due to gravity by simple pendulum	- Pendulum bob - Metre rule - Retort stand - Graph paper - Internet - Flip charts - Marker pens		-Is the student able to explain the concept of gravitational force? -Is the student able to explain the concept of gravitational force?	
			29				To direct the students to search and discuss application of gravitational force.	Students to present their findings on application of gravitational force.			-Is the student able to explain the applications of gravitational force?	
				30 – MIDTER	M EXAMS				•			
				31-35 (5 WEE	KS HOLIDAY	<u>')</u>						
COMPETE NCE	GENERAL OBJECTIVES	O N T H	E	MAIN TOPIC	SUB-T OPIC		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFER ENCES	ASSESSMENT	REMAR KS
		S	36	7.0 NEWTON'S 1 ST LAW OF	7.1 Law of Motion	3	The teacher to stimulate discussion on the behaviour of an object when there is a sudden change of its state of	Students to brainstorm, the tendency of applied force on a body when is at rest or in motion.	- Heavy load - Bottle - Cards - Cons		-Is the student able to explain the concept of inertia?	

Motion.

To lead students to state

Newton's first Law of motion.

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MOTION

-Is the student able

to state Newton's 1st

Law of motion?

- Tea cups

- Table, cloth

on a table.

- Trolley

State Newton's 1st Law of

motion.

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Ciass/Streat	II. I OKIVI I VVO									Jubject. I	1113103	
		B E R					Facilitate for demonstrations of Newton's first law of motion on an object at rest.	Students to perform an experiment to verify Newton's first law of motion.			-ls the student able to verify Newton's 1 st Law of motion?	
			37		7.2 2 nd Law of Motion	6	Facilitate students to investigate the relationship between the velocity and mass of a body moving in a straight line. To encourage students to deduce the SI unit of linear momentum from the product of mass & velocity.	Students to explain the concept of linear momentum. Students to deduce and state the SI unit of linear momentum.	- Trolley -Various masses.		-Is the student able to explain the concept of linear momentum? -Is the student able to state	
							To guide students to determine experimentally the linear momentum of a body	Students to perform an experiment to measure the velocity of a trolley, loaded with a known mass. To compute the product of mass & velocity.			the S.I Units of linear momentum?	
COMPETE NCE	GENERAL OBJECTIVES	O N T H	E	MAIN TOPIC	SUB-T OPIC	F F I C C	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFER ENCES	ASSESSMENT	REMAR KS
		S E P					Teacher to guide students to determine experimentally the linear momentum of a body.	Students to perform an experiment to measure the velocity of a loaded with a known mass.			Is the student able to determine linear momentum?	

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Class/Stream	II: FORIVI I WO									Subject: I	1113163	
		Ε					Facilitate students to carry	To perform experiment			-Is the student	
		M					out an experiment to verify	to find relationship of			able to state	
		В					Newton's second law of	force and acceleration.			Newton's 2 nd	
		Ε					motion.				Law of	
		R						To investigate			motion?	
		N						experiment by the			inotion:	
								relationship between				
								mass and acceleration.				
			2		7.3		The teacher to organize for	Students to organize	- Tennis ball		Is the student	
					Conserv		students to investigate	for conduct experiment	- Spongy		able to	
			&		ation of		types off collision.	to distinguish between	floor		distinguish btn	
					Linear			elastic and inelastic	- Hard floor		elastic and	
			2		momen			collision.	- Muddy		Inelastic	
					tum				surface.		collisions?	
							To deduce the relationship	To determine	-		Is the student	
							btn linear momentum	experimentally the linear			able to state the	
							before and after a collision.	momentum of two bodies			principle of	
								moving towards each			conservation of	
								other before and after			linear	
								collision.			momentum?	
								-Compare total momentum			inomentam.	
								before and after collision.				
COMPETE	GENERAL	N	W			F						
NCE	OBJECTIVES	0	E	MAIN	SUB-T	Ę		LEARNING ACTIVITIES	T/L	REFER	ASSESSMENT	
		N	E	TOPIC	OPIC	F	TEACHING ACTIVITIES		MATERIAS	ENCES		REMAR
		Т	K			ı						KS
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						s						
1							To organize students group	-To discuss the principle	-		Is the students	
		S					discussion to see				able to apply	
		Ε					application of the principle	-To copy the principle.			the principle	
		P										
1				I					I	ı	I	ı I

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		T E M B E R	38		7.4 Third law of motion		of conservation of linear momentum. To organize the students to demonstrate that action and reaction force are related. Teacher to lead students to give the meaning of action and reaction forces. Organize students in groups to discuss application of Newton law of motion.	Students to deduce that each action force there is equal and opposite reaction force. -To state Newton's 3 rd law of motion. To identify the action force and reaction forces in bodies. In group discuss the application of 3 rd law of motion. -Solve problem.	- Balloons - Air - Bicycle pump		and solve question? Is the student able to distinguish btn action and reaction forces? -Is the student able to state Newton's 3 rd Law of motion.	
COMPETE NCE	GENERAL OBJECTIVES	N O N T H	E K	MAIN TOPIC	SUB-T OPIC	F F F F F F F F F F F F F F F F F F F	TEACHING ACTIVITIES The teacher lead students	LEARNING ACTIVITIES -Define the	T/L MATERIAS	REFER ENCES	ASSESSMENT Is the student able	REMAR KS
		S E P T E	39	TEMPERA TURE	Concept of temperat ure	1	using think pair –shore to define the temperature.	temperature.	- Ice - Heater - Deep freezer		to define the term temperature?	

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										Jabject. I		
		М					Lead students to state SI	Students state the SI			is the student able	
		B					unit of temperature.	unit of temperature.			to state the S.I	
		E									unit of	
		R									temperature?	
		/			8.2		Assist students to seek	Students to work in group	-			
		0	39		Measure	4	information from difference	to collect information on		Physics	Is the students	
		С			ment of		sources on measureable	physical properties that		for	able to measure	
		T			temperat		physical properties that	change with temperature.		Zanzibar	accurately the	
		0			ure		change with temperature.			Sec.	temperature of	
		В					By using question and answer	Students to define the	- Alcohol	School	a body?	
		E	40				to guide students to define	upper and lower fixed	- Melting ice	Book 2.	a 2001.	
		R					fundamental interval of a	points of a thermometer.	- Hot water			
							thermometer.					
							Organize students to study	Students to record the	- Hot water			
							how alcohol in glass	reading of the	- Ice			
							thermometer works.	thermometer in ice and	- Alcohol			
								hot water.	- One-sided			
								Describe mode of action	- Closed			
								of liquid in glass	narrow glass			
								thermometer.	cylinder			
									•,			
COMPETE	GENERAL	N	w			Η,						
NCE	OBJECTIVES	ا ا		MAIN	SUB-T	۱,		LEARNING ACTIVITIES	T/L	REFER	ASSESSMENT	
		N		TOPIC	OPIC		TEACHING ACTIVITIES		MATERIAS	ENCES		REMAR
		T	K		0.10	اا						KS
		l .	"			. ا						
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						Ť	Lead the students to	In groups to record the	- Thermomet			
		0					measure temperature of	temperature different	er			
		С					different bodies.	bodies.	Hot water			
		Т					different bodies.	boules.	Tion water			
		0										
		В										

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Class/Stream: FORM TWO									Subject: I	PHYSICS	
Classy stream.	E R	40	9.0 SUSTAIN ABLE ENERGY SOURCES	9.1 Water energy	3	The teacher should lead the students to discuss the generation of electricity. To lead the student to discuss the importance and advantage of hydroelectricity	Students describe energy change in the generation of hydro electricity. To describe common application of water energy.	Diagram of hydroelectric power plant city. Reference books.	Jungeet.	Is the student able to explain the generation of electricity from water?	
						To guide students to construct a model of an hydroelectric Power Plant.	To draw a diagram of a model of an hydroelectric Power Plant.	Manila sheet Styrofoam Razor blades wood.			
COMPETE GENERAL NCE OBJECTIVES	М С П Т	E	MAIN TOPIC	SUB-T OPIC	1 1	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFER ENCES	ASSESSMENT	REMAR KS
	0 C T 0 B	42	SUSTAIN ABLE SOURCE	9.2 Solar Energy	3	Lead students to discuss the sun as the primary source of energy on earth.	To list down the main application of solar energy	Solar panel photoroltoni c cells		Is the student able to explain the conversion of solar energy to electricity?	

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		E R		OF ENERGY			To guide students to discuss how solar energy can be converted to electricity. To guide students to	Make group discussion conversation mechanisms to electricity. To draw a circuit diagram showing the conversation of solar energy into electricity by a solar cell. To design and	- Model of a		Is the student	
							discuss the construction of a model of a solar panel.	construct a model of a solar panel.	solar panel - Solar cells		able to construct a model of solar	
СОМРЕТЕ	GENERAL	I N	w								panel	
NCE	OBJECTIVES	O N T H		MAIN TOPIC	SUB-T OPIC	F F C C	TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFER ENCES	ASSESSMENT	REMAR KS
		0	42		9.3 WIND		The teacher to stimulate the students to identify	Students to show that wind can cause objects	- Wind - Feathers		Is the student able to explain wind as a source of	
		C T O B	43		ENERGY	3	evidence which proves that wind has energy.	to move.	- Cotton wool.		a source or energy?	

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Ciass/Streat	II. I OKIVI I VVO									Jubject.	1113163	
		E R / N					To organize for educational visit to a place where wind mill is used.	To construct a model of a wind mill.	- Wind mill - Wood - Nails - glue		- Is the student able to construct a model of a wind mill?	
		O V E M					Lead the students to discuss the applications of wind mill in daily life.	In groups to discuss the application of the wind mill.	-		- Is the student able to use wind mill in daily life?	
		B E R	44		9.4 SEA WAVE ENERGY	2	The teacher to lead students to discuss the sea waves as a source of energy.	Students in their group to discuss the energy from the sea water.	- Internet		Is the student able to explain sea wave as source of energy?	
							The teacher to guide students to discuss on how sea water can be converted to electricity.	To brainstorm on how sea wave energy can be converted to electricity. In groups construct the model system of convert Sea wave energy into electricity.	 Car board Scissors Nails Tape/glue Reference books Internet 		Is the student able to explain the conversion of sea wave energy to electric energy ?	
COMPET ENCE	GENERAL OBJECTIVES	M O N T H	E K	MAIN TOPIC	SUB-T OPIC		TEACHING ACTIVITIES	LEARNING ACTIVITIES	T/L MATERIAS	REFE RENC ES	ASSESSMENT	REMAR KS
		N O V			9.5 GEOTHE RMAL ENERGY	2	To guide students in groups as the source of energy.	Students in their group to discuss the source of geothermal energy.	-		Is the student able to explain geothermal as a source of energy?	

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		E M B E	45				The teacher to lead students to discuss how geothermal energy can be converted into electricity.	Students to discuss the ways of converting geothermal energy to electricity.	- Manila paper - Scissors - Glue - Marker pen	to explain the conversion of geothermal energy to element	Is the student able to explain the conversion of geothermal energy to electric	
								Students to draw a diagram of a steam turbine and explain how it works to convert steam to electricity.	- Reference books.		energy?	