. SCHEME OF WORK OF PHYSICS FORM FOUR YEAR OF 2024

Competen	Specific Objectives	Month	Week	Main Topic	Sub Topic	Perio ds	Teaching Activities	Learning Activities	Learning Aids	Assessment	References	Remarks
The student should have ability to: identify	The student should be able to: a) explain the concept of a wave; b) explain the terms wave long frequency and velocity of a wave; and c) identify types of waves.	у	2	WAVES	Introductio n to waves		velocity (v) of a wave. iv) To guide students to identify types of waves.	e concept of waves. ii) Students to explain the waveleng frequency and velocity of a wave. iii) Students in groups to identify mechanical and electro magnetic waves	Rope, ripple * Vibrator * Ting fork c Chart showing graph of displacement against time *cathode rays oscilloscope	explain e concept of a wave? Can the student explain the terms wavelength frequency and velocity of a wave? Can student identify types of wave?	Secondary Schools, Students Book Form Four. By T.I.E	
apply waves in daily life	The student should be able to: a) explain the term refraction, reflection, diffraction and interference of a wave b) mention the applications of refraction, reflection, diffraction and interference of a wave in daily life c) demonstrate the behaviour of waves	y	3-4	WAVES	behaviour of waves	8	i) guide the students to explain the behaviour of gases such as refraction, reflection, diffraction, and interference of a wave	refraction, reflection, diffraction, and interference of a wave	tank,rectangular prism,two metal rods, vibrator, two speakers and a radio,TV, mobile phone	is the student able to explain refraction, reflection, diffraction, and interference of a wave?	Secondary Schools, Students Book Form Four. By T.I.E	
apply	The student should be able to: a) explain the term refraction, reflection, diffraction and interference of a wave b) mention the applications of refraction, reflection, diffraction and interference of a wave in daily life c) demonstrate the behaviour of waves	ary	Week 1	WAVES	behaviour of waves	4	ii) lead the students to brainstorm on the applications of refraction, reflection, diffraction, and interference of a wave iii)assist the students to demonstrate the behaviour of gases	applications of refraction, reflection, diffraction, and	tank,rectangular prism,two metal rods, vibrator, two speakers and a radio,TV, mobile phone	applications of refraction.	Physics Form Four By BN, Physics For Secondary School Form 3&4 By SCSU&MoV	
The student should have ability to: describe the propagatio n of a wave	The student should be able to: a) Describe the propagation of mechanical waves. b) explain the propagation of		Week 2	WAVES	propagation of waves	4	To use question and answer technique to assist students to discuss propagation of mechanical waves.	mechanical waves ii)students to determine the relationship between	Tling fork * Ripple *Rope Chart showing electromagnetic spectrum chart	waves? Is the student able to explain the propagation of electromagnetic	Secondary Schools, Students Book Form Four. By	

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	c) determine the relation between frequency, speed and wavelength of a wave and determine the refractive index of a medium								and wavelength.	Is the student able to determine the relation between frequency, speed and wavelength of a wave?	
The student should have ability to: describe the propagation of a wave	The student should be able to: a) Describe the propagation of mechanical waves. b) explain the propagation of electomagnetic waves c) determine the relation between frequency, speed and wavelength of a wave and determine the refractive index of a medium	Febru ary	Week 3	WAVES	propagation of waves	4	ii) To guide s en to demonstrate the propagation of mechanical waves. iii) To apply question and answer technique to explain the propagation of electromagnec waves. iv) Students groups to discuss the propagation of electromagnec waves. v) Through question and answer technique to lead	frequency from the equation students to determine the refractive index of a medium. iv) Students groups to	Tling fork * Ripple *Rope Chart showing electromagnetic spectrum chart showing the relationship between	Is the student able to explain the propagation of electromagnetic waves? Is the student able to determine the relation between frequency, speed and wavelength of a wave?	Physics Form Four By BN, Physics For Secondary School Form 3&4 By SCSU&MoV
The student should have ability to: explain the mechanis m of hearing	the student should be able to: a) identify the sources of sound waves b) explain the concept of audability of sound	Febru ary	Week 4	WAVES	sound waves	4	i) guide the students to identify sources of sound waves ii) help the students to explain the concept of hearing iii) assist the students to describe the perception of hearing	of sound waves	model of human	i) identify sources	Physics For Secondary Schools, Students Book Form Four. By T.I.E
The student should have ability to: explain the mechanis m of hearing	c) describe the perception of hearing d) explain the concept of echo and reverbaration of sound		1		sound waves	4	iv) guide the students to demonstrate the production of echo	iii) students to describe the perception of hearing iv) explain the concept of echo and reverbaration	drum, guitar, model of human hear,table with audability range, tall wall , hall, microphone	concept of audability range iii) describe the	Secondary School Form 3&4 By SCSU&MoV
The student should have ability to: Construct simple musical instrument	The student should be able to: a) explain concept of a musical sound;	March	Week 2	WAVES	musical sounds	4	i) To guide students to explain the concept of musical sound ii) To lead students to the identify factors affecting loudness pitch and quality of musical sound. iii) organize students visit for students to identify different types of musical instruments iv) lead the students to explain the terms nodes, antinodes, and stationery waves v) guide the student to determine the factors that affect the frequency of a note vi)To lead students to dlstinguish between fundamental note and overtones.	of music and noise ii) Student to identify factors affecting loudness, pitch and frequency of musical sound iii) students to explain the terms nodes, antinodes, and stationery waves iv) students to dlstinguish between fundamental note	Sonometer ' T for * Violin * Flute * Drum * guitar * Microphone * Cathode rays oscilloscope pipe musical instruments.	Is e student able to explain e concept of musical sound? Is the student able to identify factors affecting loudness, pitch and quality of musical sound? is the student able to identify different musical instruments? is the student able to explain the terms used in	Secondary Schools, Students Book Form Four. By

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						helical string, marker pens, white sheet, white sheet, helical string, marker pens, white sheet, white sheet, helical string, can the student determine the frequency of a note? Is the student able to differentiate between the fundamental notes and overtones? Is the student able to explain the concept of resonance as applied to sound? Is e student able to construct a simple musical instr	
Construct simple musical instrument	b) identify factors affecting loudness, pitch and quality of a musical sound. c) identify the different musical instruments d) explain the terms stationery wave, nodes and antinodes e) determine the frequency of a musical note f) differentiate between fundamental note and overtones g) explain the concept of resonance as applied in sound waves h) construct a simple musical instrument	3	WAVES	musical sounds	4	vii) To lead students to explain the concept of resonance as applied to sound. v) The students to distinguish between fundamental note viii) To invite an expert to support students to construct a simple musical instrument. vii) Students to construct a simple musical instrument. viii) Students to v) The students to distinguish between fundamental note and overtones vi) Students to demonstrate and explain resonance as applied to sound. V) The students to distinguish between fundamental note support students to construct a simple musical instrument. viii) Students to viii) Students to demonstrate and explain resonance as applied to sound. Stapos; Sonometer & Sonom	
The student should have ability to: Construct simple musical instrument	b) identify factors affecting loudness, pitch and quality of a musical sound. c) identify the different musical instruments d) explain the terms stationery wave, nodes and antinodes e) determine the frequency of a	Week 4	WAVES	musical sounds	4	MID EXAM-22/03/2024-27/03/2024 MID TERM BREAK-28/03/2024-07/04/2024 vii) To lead students to explain the concept of resonance as applied to sound. viii) To invite an expert to support instrument. vii) Students to Students to demonstrate and explain resonance as applied to sound. Viii) Students to Sonometer & apos; T for *Violin * Flute Violin * Flute Is e student able to explain e concept of musical sound? Violin * Flute Violin * Flute Four By BN, Physics For Secondary School Form 3&4 By SCSU&MoV ET-Zanzibar	

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	musical note f) differentiate between fundamental note and overtones g) explain the concept of resonance as applied in sound waves h) construct a simple musical instrument											
The student should have ability to: identify rays in a spectrum	The student should be able to: a) ~explain the concept of the electromagnetic spectrum b) identify the main bands of the electromagnetic spectrum~ c) detect infra-red, visible and ultra violet rays	April	3	WAVES	Electromag netic Spectrum	4	i) To guide students to explain the concept of the electromagnetic spectrum. ii) To guide students to draw and label the electromagnetic spectrum. iii) Students to identify bands of electromagnetic spectrum iv) To guide students .tn groups to detect infra red rays, visible and ultra-violet rays.	concept of electromagnetic spectrum ii) students to draw and label the electromagnetic spectrum. iii) Students in groups to detect the infra red rays, visible and ultra violet rays	bow o Thermometer Iron * heater * Sun rays	to ~explain the concept of the electromagnetic spectrum? Is the student able to identify the main bands of the electromagnetic spectrum? Can the student infra-red visible and ultraviolet rays?	Secondary Schools, Students Book Form Four. By T.I.E	
The student should have ability to: identify rays in a spectrum	b) identify the main bands of the electromagnetic spectrum~ c) detect infra-red, visible and ultra violet rays	April	Week 4	WAVES	Electromag netic Spectrum	4	i) To guide students to explain the concept of the electromagnetic spectrum. ii) To guide students to draw and label the electromagnetic spectrum. iii) Students to identify bands of electromagnetic spectrum iv) To guide students .tn groups to detect infra red rays, visible and ultra-violet rays.	the electromagnetic spectrum. iii) Students in groups to	bow o Thermometer Iron * heater *	to identify the main bands of the electromagnetic spectrum? Can the student infra-red visible	Physics Form Four By BN, Physics For Secondary School Form	
The student should have ability to: apply electroma gnetism in agriculture	The student should be able to:a) identify the application of microwaves, radio-waves, infra-red, b) explain the importance of electromagnetic waves in Agriculture and climate.gamma rays		Week 1	WAVES	Applicanon s of Electromag netic Wave in Daily Life	2	i) To guide students to identify the applications of microwaves, radio- waves, infra red, gamma rays and x-rays. ii) To support students to perform a project work on the Importance of electromagnetic wave.	applications of microwaves, radio- waves, red, gamma rays and x-rays ii) Student to carry out experiment on importance of electromagnetic waves in agriculture	' Vision ' Vitamin A * Hospital treatment ' Domestic use	to identify the applications of microwaves,	Secondary Schools, Students Book Form	
The student should have ability to: determine the direction and presence of force of a magnetic field	The student should be able to a) explain how electric current produces a magnetic field; b) identify the pattern of the magnetic field lines around a	May	Week 1	ELECTRO MAGNETI SM	Magnetic fields due to a current - caring conductor	2	i) To assist students to explain how electro current produce magnetic field. ii) To guide students to carry out experiments to investigate the magnetic fields associated with electric current passing through a straight wire, loop and solenoid. iii) guide the students to state the right hand rule and the cork screw rule iv) guide the students to determine the directions and repulsion of force	experiment to produce magnetic field due to a current carrying wire ii) students to carry out experiments to investigate the magnetic fields associated with electric current passing through a	Compass needle * iron fillings * Source of electricity thumb, wire, u shaped magnet, mercury, iron fillings	Is the student able to explain how electric current produce magnetic field?	Secondary Schools, Students Book Form Four. By	

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direction of magnetic field around a current carrying conductor d) determine the presence and direction of a force on a current carrying conductor in a magnetic field e) determine the direction of force of two current carrying conductors when the current is flowing in the same or o		on a current carrying conductor placed at the right angle to a magnetic field iv) students to apply flemings left hand rule and tell direction of a force due to a current carrying conductor v) students to carry out experiments to show the direction on a current carrying conductor to a magnetic field in the same direction or opposite direction? Is the student able to determine the presence and direction of force in a magnetic field?
student should be able to: a) explain the concept of electromagnetic induction b) state the laws of electromagnetic induction c) explain the concept of self and mutual induction	ek ELECTRO MAGNETI SM Electromag netic induction	i) guide the student to demonstrate the production of induced current using coil and magnet ii) guide the students to explain the concept of electromagnetic induction iii) guide the students to explain the concept of electromagnetic induction iii) guide the students to state the fardays and lenzs laws of electromagnetic induction iv) guide the students to explain the concept of self induction iv) guide the students to explain the concept of self induction iv) guide the students to explain the concept of self induction iv) guide the students to explain the concept of self induction iv) explain the mode of induction iv) explain the mode of action of a.c and d.c v) expose and demonstrate the structure of an induction coil to the students and guide them on how it works i) students to explain the concept of electromagnetic induction iii) students to state the fardays and lenzs laws of electromagnetic induction iii) students to explain the fardays and lenzs laws of electromagnetic induction iii) students to state the fardays and lenzs laws of electromagnetic induction iii) students to state the fardays and lenzs laws of electromagnetic induction iii) students to state the fardays and lenzs laws of electromagnetic induction iii) students to explain the concept of self induction coil, chart of induction coil, chart of a.c and a.c generator induction iv) explain the mode of action of a.c and d.c generators and how to convert a.c generator to d.c
student should have ability to: construct a simple transforme r	k ELECTRO MAGNETI SM Electromag netic induction	vi) teacher to explain the flow of a.c and d.c from a coil rotating in a magnetic field vii) explain the mode of action of a.c and d.c generators and how to convert a.c generator and the advantages and disadvantages of a.c over d.c generator vi) teacher to explain the flow of a.c and d step down transformer vi) explain the concept of generators and how to convert a.c generator to d.c viii) discuss the application of a.c generator and the advantages and disadvantages of a.c over d.c generator vi) teacher to explain the flow of a.c and dstep down transformer vi) explain the concept of and step down transformer vi) explain the concept of and step down transformer vi) explain the concept of and mutual induction? viii) discuss the application of a transformer ix) discuss the student able to state the self and mutual induction? ScSubanov is the student able to state the self and mutual induction? ScSubanov is the student able to state the self and mutual induction? ScSubanov is the student able to state the self and acc generator is the student able to state the self and mutual induction? ScSubanov is the student able to state the application of induction coil is the student able to occur and acc generator is the s
The student should be able to: should have ability to: draw the structure of an atom atom; The student should be able to: a) describe the structure of the nucleus of an atom; b) explain the atomic number,	k RADIOAC Nucleus of 2 an atom	i) guide the students to discuss the structure of an atom ii) assist the student to give the meaning of atomic number mass, number, and isotopes of an element iii) assist the student to mention the forces holding the nucleus ii) guide the students to discuss the structure of an atom atom, chart of an atom, chart of

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Ti	mass number and isotopes of and atom c) mention forces holding the nucleus	M	W. I	DADIOAC	Nation 1					is the student able to mention the forces holding the nucleus	Dhasia	
The student should have ability to: apply radioactivi ty in daily life	the student should be able to explain: a) concept of radioactivity b) describe the properties of radiations emmited by radio active elements c) explain the nucleus changes to the emission of alpha, beta and gamma rays d) explain the detection of gamma, alpha, and beta e) describe the half life as applied in radioactive substances f) determine the half life of a radiaoctive element	·	3	RADIOAC	natural radioactivit y	2	i) assist the students explain the concept of radioactive	1) students explain the concept of radioactive ii)students to describe the properties of alpha, gamma, and beta rays iii)students to explain the nuclear changes due to emmission of alpha, beta and gamma radiations	elements, periodic tabel, chart showing bombarding elements, chart showing emmissions, photographic	radioactivity? can the student describe the properties of particle emitted during radiations? can the student explain the nuclear charge due to	Secondary Schools, Students Book Form Four. By T.I.E	
							TERMINAL EXAM- 20/05/2024-30/05/2024 END OF TERM ONE HOLIDAY BREAK-31/05/2024-01/07/2024					
The student should have ability to: apply radioactivi ty in daily life	the student should be able to explain: a) concept of radioactivity b) describe the properties of radiations emmited by radio active elements c) explain the nucleus changes to the emission of alpha, beta and gamma rays d) explain the detection of gamma, alpha, and beta e) describe the half life as applied in radioactive substances f) determine the	July	Week 1	RADIOAC TIVITY	Natural radioactivit y	4	ii) assist students to describe the properties of alpha, gamma, and beta rays iii) guide the students to explain the nuclear changes due to emmision of alpha, beta and gamma radiations iv) guide the students to detect the alpha, beta and gamma radiations v) guide the students to describe the meaning of half life as applied in radioactive substance and highlight the meaning of background radiations vi) help students to demonstrate half life using various methods vii) guide the students to identify the application of natural radioactive substances	alpha, beta and gamma radiations v) students to describe the meaning of half life as applied in radioactive substance and highlight the meaning of background radiations vi)students to demonstrate half life using various methods vii) students to identify the application of natural	elements, periodic tabel, chart showing bombarding elements, chart showing emmissions, photographic plates, spark chamber, wilson cloud chamber, graph showing	explain the detection of alpha, beta and gamma rays? is the student able to describe the application of half life in radioactivity? is the student able to determine the	Physics Form Four By BN, Physics For Secondary School Form 3&4 By	

	half life of a radiaoctive element										
The student should have ability to: produce artificial radioactivi ty	producing artificial radioactivity isotopes c) mention the application of artificial radioactivity	j	2	RADIOAC TIVITY	artificial radioactivit y	4	i) guide the students to distinguish artificial and natural radioactivity ii) describe the methods of producing artificial radioactive isotopes iii) guide the students to mention the application of artificial radioactivity	artificial and natural radioactivity ii) describe the methods of producing artificial radioactive isotopes iii)students to mention the application of artificial radioactivity	bombarding elements, periodic table,	radioactivity? is the student able to describe the methods of producing artificial radioactivity? is the student able to mention applications of artificial radioactivity?	Secondary Schools, Students Book Form Four. By T.I.E
The student should have ability to: protect oneself from radiations	the student should be able to: a) explain the effects of nuclear radiations on human body b) protect himself or herself from human radiations hazards	J	3	RADIOAC TIVITY	radiation hazards an safety	4	i) explore the effects of nuclear radiations on the human body ii) guide the students to understand how to protect themselves from nuclear radiations effects	of nuclear radiations on the	the hazards of radiations radioactive		Secondary Schools, Students Book Form Four. By
	THE STUDENT should be able to: a) explain the nuclear fusion and fission b) mention the applications of nuclear fission and fusion	July	Week 4	RADIOAC TIVITY	Nuclear fission and fusion	2	i) To assist students explore the concept of nuclear fusion and fission ii) To assist students in groups to mention the application of nuclear fusion and fission	concept of nuclear fusion and	the nuclear fusion and fission, charts of	is the student able to explain nuclear fusion and fission? is the student able to explain the applications of nuclear fusion and fission?	Secondary Schools, Students Book Form Four. By
The student should have ability to: describe the use of	should be able to: a) explain the production of cathode rays b) state the	Augus t	Week 1	THERMIO NIC EMISSION	Cathode rays	2	i) to guide students to explain production of cathode rays ii) to facilitate the student to state the properties of cathode rays iii) assist the students to state the applications of cathode rays	production of cathode rays ii) the student to state the properties of cathode rays	computer, maltos	cathode rays? is the student able to state the	Secondary Schools, Students
	should be able to: a) describe the structure and mode of action of X- ray tube	Augus t	Week 2	THERMIO NIC EMISSION	X-Rays	2	i) to guide the student to describe the structure and mode of action of x-ray tube ii) guide the students to distinguish between soft and hard x- ray and their production iii) guide the students to view the position of X-rays in electromagnetic spectrum iv) guide arrange for students to study	structure and mode of action of x-ray tube ii) student to draw and label the diagram of x-ray tube iii) students to discuss the	x-ray tubes, electromagnetic spectrum,x-ray unit center, x-rays	is the student able to describe the mode of action of x-ray tube? is the student able to distinguish between soft and hard X-rays? is the student able	Secondary Schools, Students Book Form Four. By

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	their production c) state the properties of X-rays d) identify the applications of X-rays in daily life						visit to the x-rays in diagnostic of patients educational trip to state the properties of X-rays?	
The student should have ability to: Demonstr ate concept of semicondu ctors		t	Week 3	ELECTRO NICS	Semicondu ctors	2	i) To guide students to explain the concept of energy bands in solids. ii) To guide students to explain the difference between electrical conductivity for conductors, semiconductors and insulators. a) Students to draw the energy bands in solids. b) Students to distinguish between conductors, semiconductors and insulators. and Insulators Chart of energy bands in solids to explain the concept of energy and in solid Conductors, Semiconductors and Insulators Battery Galvanometer Connecting wires Chart of energy levels for Conductors, Semiconductors and Insulator. Silicon, Germanium semiconductors. Chart showing clopping process.	1
The student should have ability to: Demonstr ate concept of semicondu ctors	b) distinguish between conductors, semiconductors and insulators; c) describe the effects of temperature on the conductivity of conductors; semiconductors and insulators; d) identify types of semiconductors e) describe the mechanism of clopping intrinsic semiconductors.	Augus t	3	ELECTRO NICS	Semicondu ctors	Ş	iii) To guide students to describe the effects of temperature on conductivity of conductors, semiconductors and insulator. iv) To guide students to identify types of semiconductors. v) To guide. students to describe the mechanism of dapping impurities in intrinsic Students to describe the mechanism of dopping intrinsic semiconductors. Chart of energy and in solid Conductors, semiconductors and insulators. Semiconductors and insulators. d) Students to identify types of semiconductors. Students to describe the mechanism of dopping intrinsic semiconductors. Students to identify types of semiconductors and insulators. Battery Semiconductors, semiconductors and in solid Conductors, semiconductors and insulators. Semiconductors and insul	1
					5		MID TERM EXAM-23/08/2024-29/08/2024-MID TERM BREAK-30/08/2024-16/09/2024	
	The student should be able to: a)describe the construction of P-N junction; b) Explain the mode of action of a P-N junction; c) identify the types of diodes; d) construct a half-wave and	Septe mber	Week 3	ELECTRO NICS	Diodes	2	ii) To lead students to describe the construction of a P-N junction. ii) To guide students to explain the mode of action of a P-N junction. iii) To display different types of diodes iv) To guide students to discuss a circuit which shows half and full-wave rectifications. a) Students to describe the structure of a P-N junction. b) Students to explain the mode of action of a P-N junction. c) Students to identify types of diodes plunction. c) Students to identify types of diodes of diodes. d) Students to construct of diodes of diodes. c) Students to construct of diodes of action of a P-N junction of p-N junction? c) Students to construct of diodes of action of a P-N junction of diode of diodes. c) Students to construct of diodes of action of a P-N junction of p-N junction? c) Students to construct of diode of action of a P-N junction of p-N junction? diode of diodes of diodes of diodes of diodes of diodes. Different types of diode? Light emitting of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of diode? Light emitting of diodes of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of diode of its the student able to identify the types of diode? Light emitting of its the student able to identify the types of diode? Light emitting of its the student able to identify the types of diode? Light emitting of its the student able to identify the types of diode? Light emitting of its the student able to identify the types of diode? Light emitting of its the student able to identify the types of diode? Light emitting of its the student able to identify the types of diode? Light emitting of its the stude	1

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	full-wave rectifier.								Capacitor Resistors Connecting wires	to construct a half-wave and full-wave rectifier?	
	The student should be able to: a) describe the construction of a PNP transistor; h) explain the mode of action of a PNP transistor; c) identify the types of transistors; d) outline the applications of transistors in daily life.		Week 3	ELECTRO NICS	Transistor	2	i) To display transistors and show a diagram of a transistor. ii) To display transistors and diagram of a transistor. iii) To assist students to identify types of transistors. iv) Through question and answer technique to lead students to outline the applications of transistors.	construction of a transistor. b) Students to describe the structure of a transistor. c) Students to identify types of transistors. d) Students to outline the	Chart showing a transistor Different types	Is the student able to describe the	Schools, Students Book Form Four. By
Demonstr ate concept of	The student should be able to: a) explain the concept of analogue signals; b) explain the concept of digital signals; c) design and a single-stage amplifier.	Septe mber	Week 4	ELECTRO NICS	Single Stage Amplifier	2	i) To explain the analogue signal ii) To assist students to explain the concept of digital signals. iii) To guide students to design single stage amplifier.	b) Students to explain the	Mobile phone (analogy) Chart showing digital signal.	explain the	Four. By
e of astronomy in every day life	The students should be able to: a) explain the concept of astronomy; b) explain the importance of astronomy in every day life.	mber	4	ELEMENT ARY ASTRONO MY	n to Astronomy	2	i) To guide students to explain the concept of astronomy. ii) To guide students to explain the importance of astronomy.	think-pair-share technique to explain the concept of astronomy. b) Students in groups to discuss on importance of astronomy in daily life.	Model of universe Chart of universe Clear sky Charts of heavenly bodies	astronomy? Is the student	Schools, Students Book Form Four. By T.I.E
solar system	The student should be able to: a) distinguish between a star and a planet; b) explain the force of gravitation which maintains celestial bodies in their orbits.	mber	4	ELEMENT ARY ASTRONO MY	Solar System	4	To guide students to distinguish between star and planet. ii)To lead students to explain the concept of force of gravitation which maintains bodies in their orbits.	the difference between a star and planet. b) Students in group to explain the force of gravitation which maintains bodies in their orbits.	Chart of the solar system Binoculars	Is the student able to distinguish between a star and planet? Is the student able to explain the force of gravitation which maintain bodies in their orbits?	Schools, Students Book Form Four. By T.I.E
The student should have ability to:	The student should be able to: a) explain the concept of constellation b) identify	Octob er	Week 1	ELEMENT ARY ASTRONO MY	Constellatio ns	2	To guide students to explain the concept of constellation. ii) To guide students to identify kinds of constellations. iii) To guide students to discuss the uses of constellations in navigation and	concept of constellation. b)Students to identify and name common constellations. c) Students to discuss the	Chart of different constellations.	constellation?	Schools, Students Book Form

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te the concept of constellati on	constellation s; c) uses of constellation s in every day life,						seasons prediction.	prediction.	seasons.	to identify constellations? Is the student able to use constellations in every day life?	
student should have ability to: Demonstr ate knowledg e of Structure and iii	The student should be able to: a) describe the structure of the earth; b) describe the composition of the layers of the earth. c) explain the importance of the ayers of the earth.	Octob	Week 1	GEOPHYS ICS	Structure and Compositio n of the Earth	2	i) To guide students to describe the structure of the earth. ii) To guide students to describe the composition of the layers of the earth. iii) To guide students to explain the importance of the layers of the earth.	structure of the earth b) Students in groups to describe the composition of	of the earth. Global Chart of structure of the	Is the student able to describe the structures of the earth? Is the student describe the composition of the layers of the earth? Is the student able to explain the importance of the layers of the earth?	Schools, Students Book Form
The student should have ability to: Describe earthquak es and volcanoes	The student should be able to: a) explain the origin of volcanoes; b) describe effects of volcanoes; c) explain the origin of earthquake; d) describe the orinciple of measurement of earthquake; e) identify orecautions against earthquake nazards.	Octob er	Week 2	GEOPHYS ICS	Earthquake s and Volcanoes	2	i) To guide students to explain the origin of volcanoes; ii) To guide the students to describe the effects of volcanoes. iii) To guide students to explain the concept of the earthquake. iv) To describe the principle of measurement of earthquakes. v) To assist students to identify the hazards precautions against earthquake hazards.	origin of volcanoes. b) Students to describe the effects of volcanoes. c) Students in groups to explain the origin of earthquakes. d) Students to discuss in groups how to record the measurement of earthquake.	volcanoes. Pictures showing effect of volcano. Chart of earth quake Picture of earthquake.	Is the student able to explain the origin of volcanoes? Is the student able	Schools, Students Book Form Four. By
student should have ability to: Describe Structure and c Compositi on of the Atmosphe re	should be able to: a) describe the vertical structure of the atmosphere; b) describe the composition of the atmosphere. c) explain the importance of various layers of the atmosphere.	er	2	ICS	Structure and Compositio n of the Atmosphere	2	i) To lead students to describe the vertical structure of the atmosphere. ii) To guide students to describe the compositions of the atmosphere. iii) To guide students to explain the importance of various layers of the atmosphere.	vertical structure of the atmosphere. b) Students by using think-pair-share technique to describe the composition of atmosphere. c) Students to explain the importance of various layers of the atmosphere.	structure of atmosphere. Chart of structure of atmosphere showing the layers. Chart of structure atmosphere	Is the student able to describe the vertical structure of the atmosphere? Is the student able to describe the composition of the atmosphere? Is the student able to explain the importance of various layers of the atmosphere?	Schools, Students Book Form Four. By T.I.E
student should	The student should be able to: a) explain the greenhouse	Octob er	Week 3	GEOPHYS ICS	The Greenhouse Effect and Global	4	i) To guide the students to explain the green house effect ii) To lead students to identify sources of green house.	explain the green house	house	green house	Physics For Secondary Schools, Students

Demonstr ate Greenhous	effect; b) identify sources of greenhouse; c) explain the occurrence of global warming; d) state the consequence s of global warming.		Warming	iv) To guide students to state the consequences of global warming.	c) Students in groups to explain the occurrence of global warming	Green house gases. Chart of effect of global warning. Picture of effect	occurrence of global warming? Is the student able	Four. By T.I.E	
		 	 	 PREPARATIONS AND SITTING FOR NATIONAL EXAMINATIONS					