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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| WAVES | Introduction to waves | 1. To guide students to brainstorm the concept of waves 2. To lead students to demonstrate 3. Through questions and answer technique assist students to explain the terms wavelength ( / ), frequency (l) and velocity (v) of a wave. 4. To guide students to identify types of waves. | January | Week 2 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | o Slinky spring \* Rope, ripple \* Vibrator \* Ting fork c Chart showing graph of displacement against time \*cathode rays oscilloscope | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | behaviour of waves | i) guide the students to explain the behaviour of gases such as refraction, reflection, diffraction, and interference of a wave | January | Week 3 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | ripple tank,rectangular prism,two metal rods, vibrator, two speakers and a radio,TV, mobile phone | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | behaviour of waves | i) guide the students to explain the behaviour of gases such as refraction, reflection, diffraction, and interference of a wave | January | Week 3 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | ripple tank,rectangular prism,two metal rods, vibrator, two speakers and a radio,TV, mobile phone | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | behaviour of waves | 1. lead the students to brainstorm on the applications of refraction, reflection, diffraction, and interference of a wave 2. assist the students to demonstrate the behaviour of gases | Februa ry | Week 1 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | ripple tank,rectangular prism,two metal rods, vibrator, two speakers and a radio,TV, mobile phone | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| WAVES | propagation of waves | i) To use question and answer technique to assist students to discuss propagation of mechanical waves. ii) To guide s en to demonstrate the propagation of mechanical waves. | Februa ry | Week 2 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | c SIy spring \* Tling fork \* Ripple \*Rope Chart showing electromagnetic spectrum chart showing the relationship between frequency, speed and wavelength. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | propagation of waves | 1. To apply question and answer technique to explain the propagation of electromagnec waves. 2. Students groups to discuss the propagation of electromagnec waves. 3. Through question and answer technique to lead | Februa ry | Week 3 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | SIy spring \* Tling fork \* Ripple \*Rope Chart showing electromagnetic spectrum chart showing the relationship between frequency, speed and wavelength. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | sound waves | 1. guide the students to identify sources of sound waves 2. help the students to explain the concept of hearing 3. assist the students to describe the perception of hearing iv) guide the students to demonstrate the production of echo | Februa ry | Week 4 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | drum, guitar, model of human hear,table with audability range, tall wall , hall, microphone | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | sound waves | iii) assist the students to describe the perception of hearing iv) guide the students to demonstrate the production of echo | March | Week 1 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | drum, guitar, model of human hear,table with audability range, tall wall , hall, microphone | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| WAVES | musical sounds | 1. To guide students to explain the concept of musical sound 2. To lead students to the identify factors affecting loudness pitch and quality of musical sound. 3. organize students visit for students to identify different types of musical instruments 4. lead the students to explain the terms nodes, antinodes, and stationery waves 5. guide the student to determine the factors that affect the frequency of a note 6. To lead students to dlstinguish between fundamental note and overtones. 7. To lead students to explain the concept of resonance as applied to sound. 8. To invite an expert to support students to construct a simple musical instrument.   vii) Students to | March | Week 2 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | - Sonometer - T for \* Violin  \* Flute \* Drum \* guitar \* Microphone \* Cathode rays oscilloscope pipe musical instruments, string musical instruments, electronic musical instruments, helical string, marker pens, white sheet, | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | musical sounds | 1. To lead students to explain the concept of resonance as applied to sound. 2. To invite an expert to support | March | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | - Sonometer - T for \* Violin  \* Flute \* Drum \* guitar \* Microphone \* Cathode rays oscilloscope pipe musical instruments, string musical instruments, electronic musical instruments, helical string, marker pens, white sheet, | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | musical sounds | 1. To lead students to explain the concept of resonance as applied to sound. 2. To invite an expert to support | March | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | - Sonometer - T for \* Violin  \* Flute \* Drum \* guitar \* Microphone \* Cathode rays oscilloscope pipe musical instruments, string musical instruments, electronic musical instruments, helical string, marker pens, white sheet, | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| MID TERM EXAM-22/03/2024-27/03/2024 MID TERM BREAK-28/03/2024-07/04/2024 | | | | | | | | | |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| WAVES | Electromagneti c Spectrum | 1. To guide students to explain the concept of the .electromagnetic spectrum. 2. To guide students to draw and label the electromagnetic spectrum. 3. Students to identify bands of electromagnetic spectrum | April | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | Glass prism Rain bow o Thermometer Iron \* heater  \* Sun rays | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | Electromagneti c Spectrum | iv) To guide students .tn groups to detect infra red rays, visible and ultra- violet rays. | April | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | Glass prism Rain bow o Thermometer Iron \* heater  \* Sun rays | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| WAVES | Applicanons of Electromagneti c Wave in Daily Life | 1. To guide students to identify the applications of microwaves, radio- waves, infra red, gamma rays and x-rays. 2. To support students to perform a project work on the Importance of electromagnetic wave. | April | Week 4 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | \* Radio signal - Vision - Vitamin A \* Hospital treatment - Domestic use | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| ELECTROMAG NETISM | Magnetic fields due to a current - caring conductor | 1. To assist students to explain how electro current produce magnetic field. 2. To guide students to carry out experiments to investigate the magnetic fields associated with electric current passing through a straight wire, loop and solenoid. 3. 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 | May | Week 1 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | - Wire \* Compass needle \* iron fillings \* Source of electricity thumb, wire, u shaped magnet, mercury, iron fillings | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| ELECTROMAG NETISM | Electromagneti c induction | 1. guide the student to demonstrate the production of induced current using coil and magnet 2. guide the students to explain the concept of electromagnetic induction | May | Week 1 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | source fo electricity, iron ring, coil, galvanometer, induction coil, chart of induction coil,chart of a.c and a.c generator | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| ELECTROMAG NETISM | Electromagneti c induction | 1. guide the students to state the fardays and lenzs laws of electromagnetic induction 2. guide the students to explain the concept of self induction and mutual induction 3. expose and demonstrate the structure of an induction coil to the students and guide them on how it works 4. 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 to d.c  viii) discuss the application of a.c generator and the advantages and disadvantages of a.c over d.c generator | May | Week 2 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | source fo electricity, iron ring, coil, galvanometer, induction coil, chart of induction coil,chart of a.c and a.c generator | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| RADIOACTIVIT Y | Nucleus of an atom | 1. guide the students to discuss the structure of an atom 2. assist the student to give the meaning of atomic number mass, number, and isotopes of an element 3. assist the student to mention the forces holding the nucleus | May | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | model of an atom, chart of an atom,playing card | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| RADIOACTIVIT Y | Natural radioactivity | 1. assist the students explain the concept of radioactive 2. assist students to describe the properties of alpha, gamma, and beta rays 3. guide the students to explain the nuclear changes due to emmision of alpha, beta and gamma radiations | May | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | mild radioactive elements, periodic tabel, chart showing bombarding elements, chart showing emmissions, photographic plates, spark chamber, wilson cloud chamber, graph showing radioactivity | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| TERMINAL EXAM- 20/05/2024-30/05/2024 END OF TERM ONE HOLIDAY BREAK-31/05/2024-01/07/2024 | | | | | | | | | |
| RADIOACTIVIT Y | Natural radioactivity | 1. guide the students to explain the nuclear changes due to emmision of alpha, beta and gamma radiations 2. guide the students to detect the alpha, beta and gamma radiations 3. guide the students to describe the meaning of half life as applied in radioactive substance and highlight the meaning of background radiations 4. help students to demonstrate half life using various methods 5. guide the students to identify the application of natural radioactive substances | July | Week 1 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | mild radioactive elements, periodic tabel, chart showing bombarding elements, chart showing emmissions, photographic plates, spark chamber, wilson cloud chamber, graph showing radioactivity | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| RADIOACTIVIT Y | artificial radioactivity | 1. guide the students to distinguish artificial and natural radioactivity 2. describe the methods of producing artificial radioactive isotopes 3. guide the students to mention the application of artificial radioactivity | July | Week 2 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | charts of bombarding elements, periodic table, | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| RADIOACTIVIT Y | radiation hazards an safety | 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 | July | Week 3 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | charts showing the hazards of radiations radioactive shield | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| RADIOACTIVIT Y | Nuclear fission and fusion | 1. To assist students explore the concept of nuclear fusion and fission 2. To assist students in groups to mention the application of nuclear fusion and fission | July | Week 4 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | Charts showing the nuclear fusion and fission, charts of nuclear power station | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| THERMIONIC EMISSION | Cathode rays | 1. to guide students to explain production of cathode rays 2. to facilitate the student to state the properties of cathode rays 3. assist the students to state the applications of cathode rays | August | Week 1 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | TV, computer,maltose cross,paddle wheel, | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| THERMIONIC EMISSION | X-Rays | 1. to guide the student to describe the structure and mode of action of x-ray tube 2. guide the students to distinguish between soft and hard x- ray and their production 3. guide the students to view the position of X-rays in electromagnetic spectrum 4. guide arrange for students to study visit to the x-rays in diagnostic of patients | August | Week 1 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | charts showing x-ray tubes, electromagnetic spectrum,x-ray unit center, x-rays photographic plate | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| ELECTRONICS | Semiconductor s | 1. To guide students to explain the concept of energy bands in solids. 2. To guide students to explain the difference between electrical conductivity for conductors, semiconductors and insulators. | August | Week 2 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart of energy and in solid * Conductors, Semiconductors and Insulators * Battery * Galvanometer * Connecting wires * Chart of energy levels for Conductor; Semiconductor and Insulator. * Silicon, Germanium semiconductors. * Chart showing clopping process.. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| ELECTRONICS | Semiconductor s | 1. To guide students to describe the effects of temperature on conductivity of conductors, semiconductors and insulator. 2. To guide students to identify types of semiconductors. 3. To guide. students to describe the mechanism of dapping impurities in intrinsic Students to describe the mechanism of dopping intrinsic semi conductors. | August | Week 2 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart of energy and in solid * Conductors, Semiconductors and Insulators * Battery * Galvanometer * Connecting wires * Chart of energy levels for Conductor; Semiconductor and Insulator. * Silicon, Germanium semiconductors. * Chart showing clopping process.. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| ELECTRONICS | Diodes | i) 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.   1. To display different types of diodes 2. To guide students to discuss a circuit which shows half and full- wave rectifications. | August | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart showing diode. * Diodes * P-N junction diode * Different types of diodes * Light emitting. diode (LED). * D.0 source * Diodes * Capacitor * Resistors * Connecting wires | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| ELECTRONICS | Transistor | 1. To display transistors and show a diagram of a transistor. 2. To display transistors and diagram of a transistor. 3. To assist students to identify types of transistors. 4. Through question and answer technique to lead students to outline the applications of transistors. | August | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart showing a transistor * Different types of transistors (PNP and NPN). * Radio * TV * Voltage amplifier | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| ELECTRONICS | Single Stage Amplifier | 1. To explain the analogue signal 2. To assist students to explain the concept of digital signals. 3. To guide students to design single stage amplifier. | August | Week 4 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart showing analogy signal * Mobile phone (analogy) * Chart showing digital signal. * Mobile phone (Digital) * Watch * Transistor * Resistors * Oscilloscope• | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| MID TERM EXAM-23/08/2024-29/08/2024-MID TERM BREAK-30/08/2024-16/09/2024 | | | | | | | | | |
| ELEMENTARY ASTRONOMY | Introduction to Astronomy | 1. To guide students to explain the concept of astronomy. 2. To guide students to explain the importance of astronomy. | Septem ber | Week 3 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Model of universe * Chart of universe * Clear sky * Charts of heavenly bodies | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| ELEMENTARY ASTRONOMY | Solar System | 1. To guide students to distinguish between star and planet. 2. To lead students to explain the concept of force of gravitation which maintains bodies in their orbits. | Septem ber | Week 4 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Venus star * Chart of the solar system * Binoculars * Earth and moon * Two bodies * Chart of Earth | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| ELEMENTARY ASTRONOMY | Constellations | 1. To guide students to explain the concept of constellation. 2. To guide students to identify kinds of constellations. 3. To guide students to discuss the uses of constellations in navigation and seasons prediction. | Octobe r | Week 1 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart of different constellations. * Chart of different constellations. * Chart showing seasons. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| GEOPHYSICS | Structure and Composition of the Earth | 1. To guide students to describe the structure of the earth. 2. To guide students to describe the composition of the layers of the earth. 3. To guide students to explain the importance of the layers of the earth. | Octobe r | Week 1 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart of stracture of the earth. * Global * Chart of structure of the earth * Minerals | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| GEOPHYSICS | Earthquakes and Volcanoes | 1. To guide students to explain the origin of volcanoes; 2. To guide the students to describe the effects of volcanoes. 3. 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. | Octobe r | Week 2 | 4 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Charts of volcanoes. * Pictures showing effect of volcano. * Chart of earth quake * Picture of earthquake. * Seismometer chart * Seismometer. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| GEOPHYSICS | Structure and Composition of the Atmosphere | 1. To lead students to describe the vertical structure of the atmosphere. 2. To guide students to describe the compositions of the atmosphere. 3. To guide students to explain the importance of various layers of the atmosphere. | Octobe r | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart of structure of atmosphere. * Chart of structure of atmosphere showing the layers. * Chart of structure of atmosphere showing the layer. * Communication system. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| GEOPHYSICS | The Greenhouse Effect and Global Warming | 1. To guide the students to explain the green house effect 2. To lead students to identify sources of green house. 3. To assist students to explain the occurrence of global warming. 4. To guide students to state the consequences of global warming. | Octobe r | Week 3 | 2 | Physics For Secondary Schools.  Students Book Form Four. By T.I.E | * Chart of green house * Chart of ozone layer. , * Green house gases. * Chart of effect of global warning. * Picture of effect of global warming * Melting ice caps. | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| PREPARATIONS AND SITTING FOR NATIONAL EXAMINATIONS | | | | | | | | | |