**PRESIDENT’S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**

**SCHEME OF WORK**

**Name of teacher: Name of School:**

**Year: 2025 Term: 1 & 2**

 **Class/Stream: FORM ONE Subject: PHYSICS**

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| **Main Competence** | **Specific Competences** | **Learning Activities** | **Specific Activities** | **Month** | **Week** | **Number of Periods**  | **Teaching and Learning Methods** | **Teaching and Learning Resources** | **Assessment Tools** | **References** | **Remarks** |
| **ORIENTATION COURSE (2ND WEEK OF JANUARY TO 3RD WEEK OF FEBRUARY)** |
| **1.0 Apply knowledge of physics in various contexts** | **1.1 Demonstrate mastery of basics concepts, theories and principles of physics** | a) To discuss the concept of physics (meaning, branches and c0nnection with other disciplines)b) Discuss the contribution of physics to the development of modern societyc) Explain concept of physical quantities (fundamental and derivered quantities) and their SI unitsd)Describe concepts of linear motion (speed,velocity,acceleration,distance and displacement)e)Explain the concepts and principles related to force ,density,pressure,work,power and energy | -To describe concept of physics-To explain importance of physics in real life -To describe concept of physical quantities -To explain the concept of linear motion-To describe principles related to force | **February****March** | **4th****1st****2nd** **3rd** | **12** | Brainstorming- Group discussion-ICT –based learningBrainstorming-jigsaw**Questions and answers****Brainstorming** | -Manila card -Charts with diagram.-Charts of different machine and picture -string, bob,fixed point,smooth table surface,single pulley,springs, and masses-.water tank,basin different liquids,solids materials | Exercise-Group discussion-Questions and answersExercise | Physics for secondary schools, students bookForm oneTIE 2023 |  |
| MID-TERM ASSESSMENT (4TH WEEK OF MARCH)MID-TERM BREAK (28/03/2024 - 08/04/2024) |
|  |  | f) –Dedece the relationship between density,sinking and floatingg)Describe the mechanical properties of matter in relation to force and energy | -To explain relationship between density,sinking and floating-To explain the mechanical properties of matter in relation to force and energy |  **APRIL** | **2nd & 3rd** | **06** | **Experimentation****-ICT-based learning** **-Think-ink pair share****-Group discussion** | -water tank ,sinking objects-metal rodWooden rodSpring and masses | Assignment-Group work | Physics for secondary school ,students book form one TIE 2023 |  |
|  | **1.2 Demonstrate mastery of basic terminologies,measurements and symbols in physics** | a) Describe various instruments used for measurement in physics b)Relate measuring instruments to physical quantities | -To explain measuring instruments used in physics measurements * To Prepare measuring instruments
 |  **APRIL**  | **4th** | **03** | **-Circle –the sage****-Project work****Practical work and experimentation****-Problem solving** | -Metre rules -beam balance-solid-liquid-measurement tools | ClassworkAssignment | Physics for secondary schools,students book form oneTIE 2023 |  |
| **1.3 Use mathematics to explain physical principles and phenomena** | a)Use mathematical knowledge to describe relationship between various physical quantities (force,velocity,acceleration,density,pressure) | -To describe the relation ship between various physical quantities | **May**  | **1st & 2nd** | **06** | -On line resources and physics reference book | Test |  |  |
| **TERMINAL ASSESSMENT (4TH WEEK OF MAY)****FIRST TERM BREAK (31/05/2024 - 01/07/2024)** |
| **2.0 Conduct experiments in physics** | **2.1 Demonstrate mastery of basic experimental skills in physics**  | a)Conduct experiments related to linear motion,density,force,pressure,work energy ,power and mechanical properties of matter | -To conduct experiments |  **July** | **1st & 2nd** | 06 | Experimentation-ICT based learning | -Small masses -Meter rule-Stop watch -strind and pulley | Exercise | Physics for secondary school,students book form oneTIE 2023 |  |
| **2.2 Demonstrate mastery of data analysis,presentation and report writing in physics** | a)Explain the methods of analysing experimental data in physics (statistical analysis)b)Use analytical methods to manipulate experimental data in physics | -To explain the methods of analysing experimental data-To analyse methods manipulate experimental data in physics | **3rd&4th** | 06 | -Data and on line resourcesPhysics reference books | Assignment | Physics for secondary school,students book form one TIE 2023 |  |
|  | c)Use graphical method to present experimental results in physics | -To present experimental results in physics graphically | **August** | **1st** | 03 |  | Classwork |  |  |
| **3.0 Evaluation and use information in physics** | **3.1 Collect,describe and relate physical data** | a)Collect and analyse data to explain various physical quantities (density,force,pressure)b)Collect and analyse data to explain experimental observations related to linear motion ,force,density,pressure and mechanical properties of matter | -To explain various physical parameters-To explain experimental observations related to given concept | **August** | **2nd & 3rd** | 06 | -Cooperative learning strategy-Project work-Experimentation | -Text book and online resources | Exercise | Physics for secondary school,student book form oneTIE 2023 |  |
| MID-TERM ASSESSMENT (4TH WEEK OF AUGUST)MID-TERM BREAK (30/08/2024 - 16/09/2024) |
|  | **3.2 Carry out a project in physics** |  a) Develop prototype devices based on the concept s, theories, principles and laws gained from the field of linear motion, force, density, pressure and mechanical properties of matter | -To develop prptptypes devices |  **September** | **3rd & 4th** | **09** | -Group discussion-Problem based | -On line resources | Group discussion | Physics for secondary school, student s book form oneTIE 2023 |  |
|  | OCTOBER & NOVEMBER |  | **REVISION** |
| **ANNUAL ASSESSMENT** **END OF YEAR BREAK (06/12/2024)** |