**NATURAL SCIENCE (PHYSICAL SCIENCE) - GRADE 8 2021**

|  |  |  |
| --- | --- | --- |
| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (15 February 2021 – 23 April 2021)** | | |
| **Matter and Materials** | Practical Investigation Theory   * Scientific Method * Analyzing and Recording Data * Evaluation and Conclusions | **Task 1:** Practical Investigation  08 – 12 Mar    **Task 2:** Controlled Test  12 – 23 April |
| The particle Model of Matter   * Phases of Matter * Change of state |
| **PHASE 2 (3 May 2021 – 9 July 2021)** | | |
| **Matter and Materials** | The Particle Model of Matter   * Density, mass and volume * Density and states of matter * Density of different materials * Expansion and contraction of materials * Pressure | **Task 3:** Construction: Building an Atom  14 – 18 June  **Task 4:** June Controlled test  28 Jun – 9 Jul |
| The Periodic Table and Atoms   * Structure of an Atom * Elements and Compounds * Metals and Non – metals * Chemical bonds * Chemical reactions |
| **PHASE 3 (26 July 2021 – 26 November 2021)** | | |
| **Energy and Change** | Static electricity   * Friction * Van Der Graaf Generator and Gold Leaf Electroscope * Lightning | **Task 5: C**ontrolled Test  20 – 23 Sep  **Task 6:** October Controlled test  15 – 26 Nov |
| Energy transfer in electrical systems   * Circuits and current electricity * Components of a circuit * Effects of an electric current * Series and parallel circuits   Light   * Radiation, Reflection, Refraction * Opaque, transparent and absorption |