**NATURAL SCIENCE (PHYSICAL SCIENCE) - GRADE 8 2023**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (18 January 2023 – 31 March 2023)** | | |
| **Matter and Materials** | Practical Investigation Theory   * Scientific Method * Analyzing and Recording Data * Evaluation and Conclusions | **Task 1:** Practical Investigation  7 – 11 Feb    **Task 2:** Controlled Test  6 – 10 Mar |
| The particle Model of Matter   * Phases of Matter * Change of state |
| **PHASE 2 (12 April 2023 – 23 June 2023)** | | |
| **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  16 – 20 May  **Task 4:** June Exams  12 – 23 Jun |
| The Periodic Table and Atoms   * Structure of an Atom * Elements and Compounds * Metals and Non – metals * Chemical bonds * Chemical reactions |
| **PHASE 3 (18 July 2023 – 24 November 2023)** | | |
| **Energy and Change** | Static electricity   * Friction * Van Der Graaf Generator and Gold Leaf Electroscope * Lightning | **Task 5: C**ontrolled Tests  21 – 25 Aug  **Task 6:** Nov Exams  13 – 24 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 |