**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 Investigation7 – 11 Feb**Task 2:** Controlled Test6 – 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 Atom16 – 20 May**Task 4:** June Exams12 – 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 Tests21 – 25 Aug**Task 6:** Nov Exams13 – 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
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