**NATURAL SCIENCE (PHYSICAL SCIENCE) - GRADE 8 2022**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (19 January 2022 – 25 March 2022)** |
| **Matter and Materials**  | Practical Investigation Theory* Scientific Method
* Analyzing and Recording Data
* Evaluation and Conclusions
 | **Task 1:** Practical Investigation7 – 11 Feb**Task 2:** Controlled Tests14 – 18 Feb & 7 – 11 Mar |
| The particle Model of Matter* Phases of Matter
* Change of state
 |
| **PHASE 2 (5 April 2022 – 24 June 2022)** |
| **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 Exams13 – 24 Jun |
| The Periodic Table and Atoms* Structure of an Atom
* Elements and Compounds
* Metals and Non – metals
* Chemical bonds
* Chemical reactions
 |
| **PHASE 3 (19 July 2022 – 25 November 2022)** |
| **Energy and Change** | Static electricity* Friction
* Van Der Graaf Generator and Gold Leaf Electroscope
* Lightning
 | **Task 5: C**ontrolled Tests15 – 19 Aug12 – 16 Sep**Task 6:** Nov Exams14 – 25 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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