**NATURAL SCIENCE (PHYSICAL SCIENCE) - GRADE 9 2021**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (15 February 2021 – 23 April 2021)** | | |
| **Matter and Materials** | Elements and compounds   * Periodic Table * Atomic and Electron structure * Nuclear Notation * Naming compounds * Writing formulae * Balancing Chemical Reaction Equations | **Task 1:** Investigation: Construction of a Molecule  08 – 12 March    **Task 2:** Controlled Test  12 – 23 April |
| **PHASE 2 (3 May 2021 – 09 July 2021)** | | |
| **Matter and Materials** | Metals and Non – metals   * Reactions of metals and non – metals with oxygen * Metal oxides * Non – metal oxides | **Task 3:** Practical Investigation:  Reactions of metals and non-metals in oxygen  14 – 18 Jun  **Task 4:**  June Controlled test  28 Jun – 9 July |
| Acids and Bases   * Properties * Names and Formulae of various acids and bases * Uses of acids and bases * pH scale * Neutralisation * Reactions of acids with metals * Reactions of acids and metal hydroxides * Reactions of acids and metal oxides * Reactions of acids and metal carbonates |
| **PHASE 3 (26 July 2021 – 26 November 2021)** | | |
| **Energy and Change** | Forces: (contact and non – contact)   * Electrostatic forces * Magnetic forces * Gravitational force | **Task 5:** Controlled Test  18 – 22 October  **Task 6:** October Controlled test  15 – 26 Nov |
| Electric circuits   * Cells as chemical systems and sources of energy * Relationships in series and parallel circuits * Potential Difference, Current Strength, resistance * Factors that affect resistance |