**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 Molecule08 – 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 test28 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
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| **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 Test18 – 22 October **Task 6:** October Controlled test15 – 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
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