

NATURAL SCIENCE (PHYSICAL SCIENCE) - GRADE 9 2017

| TOPIC | ASSESSMENT STANDARDS | PORTFOLIO ASSESSMENT TASKS |
|--|---|---|
| PHASE 1 (7 November 2016 – 31 March 2017) | | |
| Energy and Change | Visible Light <ul style="list-style-type: none"> • Radiation of light and spectrum of visible light • Absorption, refraction and reflection of light | ☞ Task 1 Dec Controlled Test Dec 2016 ☞ Task 2 Construction of a Molecule 6 – 10 Feb ☞ Task 3 Controlled Test 22 – 31 March |
| | Matter and Materials <ul style="list-style-type: none"> • Elements and compounds • Atomic and Electron structure • Nuclear Notation • Naming compounds • Writing formulae | |
| PHASE 2 (18 April 2017 – 30 June 2017) | | |
| Matter and Materials | Acids and Bases <ul style="list-style-type: none"> • 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 | ☞ Task 4 Practical Investigation: Reactions of metals and non-metals in oxygen 15 – 19 May ☞ Task 5 June Exams 19 – 30 June |
| | Metals and Non – metals <ul style="list-style-type: none"> • Reactions of metals and non – metals with oxygen • Metal oxides • Non – metal oxides | |
| PHASE 3 (24 July 2017 – 10 November 2017) | | |
| Energy and Change | Forces: (contact and non – contact) <ul style="list-style-type: none"> • Electrostatic forces • Magnetic forces • Gravitational force | ☞ Task 6 Research Project: Newton's Laws 14 – 18 Aug ☞ Task 7 Controlled Test 11 – 15 Sept ☞ Task 8 October Exam 30 Oct – 10 Nov |
| | Electric circuits <ul style="list-style-type: none"> • Cells as chemical systems and sources of energy • Relationships in series and parallel circuits | |