**TECHNOLOGY – GRADE 8 2023**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (18 January 2023 – 31 March 2023)** |
| **Structures****Mechanical** | Structures around the world | **Worksheet- Structures**14 – 18 February**PAT 1 Section A**28 Feb – 3 March**Controlled Test B**6 – 10 March  |
| Buildings and Bridges/ Roofs and Pylons |
| Mechanisms that change the type of movement. |
| PAT 1 Section A: Design a model of a Water tower using paper |
| **PHASE 2 (12 April 2023 – 23 June 2023)** |
| **Mechanical Systems and Control** | Levers, linkages and uses | **PAT 1 Section B**10 – 14 April**Mid-Year Exam** 12 – 23 June |
| Mechanical advantage calculations |
| Gear systems-terminology, mechanical & speed advantage, types, gears ratio, gear train |
| Advantages and disadvantages of technology – A.I. |
| Fourth Industrial Revolution: Disruptive Technologies |
| PAT 1 Section B: Make a model of a water tower out of paper |
| **PHASE 3 (18 July 2023 – 24 November 2023)** |
| **Electrical Systems and Control &****Graphic Communication**  | Sources of energy | **TEST** (Energy, Electrical etc.)21 – 25 August**PAT 2**12 – 16 September**End of Year Exam** 13 – 24 November |
| Electrical systems/electricity for the nation-Power Stations/ Energy supply for the people / electricity theft |
| Electrochemical cells and batteries - AC and DC Power Circuits - Series /Parallel/ Logic Control **/Circuit Simulator** |
| Electronic Circuits - Electronic simulated circuit design **(Micro.bit )**  |
| PAT 2- Section A & B: Design, make and present a Circuit with logic control in video format  |