**MATHEMATICS - GRADE 10 2023**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (18 January 2023 – 31 March 2023)** | | |
| **Algebra** | Products and factors | **Task 1**  Investigation:  Number patterns  20 – 24 Feb    **Task 2**  Control Test A:  Products & Factors  6 – 10 Feb  Control Test B:  Alg frac &Equations  13 – 17 March |
| Algebraic fractions |
| Equations, inequalities and simultaneous equations |
| Solve equations in two unknowns (both linear) |
| **Number patterns** | Linear number patterns |
| **Euclidean Geometry** | Revision of Grade 9 Geometry  Quadrilaterals |
| **PHASE 2 (12 April 2023 – 23 June 2023)** | | |
| **Analytical Geometry** | Distance, midpoint, gradient | **Task 3**  Assignment:  Euclidean Geometry  24 – 28 April  **Task 4**  June Exams  5 – 23 June  **Task 5**  Control Test A:  Analytical Geom  15 – 19 May  Control Test B:  Functions  22 – 26 May |
| **Functions** | Investigate characteristics of the straight line, parabola and hyperbola   and . |
| **Algebra** | Exponents and exponential equations |
| Placement of surds |
| **Functions** | Investigate characteristics of the exponential function |
| **PHASE 3 (18 July 2022 – 10 November 2022)** | | |
| **Euclidean Geometry** | Midpoint theorem and applications | **Task 6**  Control Test A: Midpt & Gen Trig  7 – 11 Aug  Control Test B: Trig func  14 – 18 Aug  **Task 7**  Control Test C: Finance  4 – 8 Sept  Control Test D: Probability  11 – 15 Sept  **Task 8**  October Exam  23 Oct – 10 Nov |
| **Trigonometry** | Definition of trigonometric ratios |
| Solution of problems in 2-dimensions |
| Functions : *y* = sin *kx* + *q* ; *y* = cos *kx* + *q* and  *y* = tan *kx* + *q* |
| **Financial Mathematics** | Simple and compound growth |
| **Probability** | Relative and theoretical probability |
| Venn diagrams and Tree diagrams to solve problems |
| **Statistics** | Measurements of central tendency and ranges |
| Interpretation of data |
| **Measurement** | Surface area and volume of solids |