**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 patterns20 – 24 Feb **Task 2**Control Test A:Products & Factors6 – 10 FebControl 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 GeometryQuadrilaterals |
| **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 MayControl Test B:Functions22 – 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 Trig7 – 11 AugControl Test B: Trig func14 – 18 Aug**Task 7**Control Test C: Finance4 – 8 SeptControl Test D: Probability11 – 15 Sept**Task 8**October Exam23 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 |