2021 ATP: Grade - Term 1: TECHNICAL MATHEMATICS GRADE 12


20221 ATP: Term 2: TECHNICAL MATHEMATICS GRADE 12

| TERM 2 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10-11 |
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| CAPS Topics | Integration |  | Trigonometry |  |  | Euclidean Geometry |  |  |  |  |
|  | Understand the concept. <br> Integrate the following functions: <br> - $k x^{n}$ <br> - $\frac{k}{x}$ <br> - $k a^{n x}$ | Applying integration to determine the magnitude of an area included by a curve and the $x$-axis or by a curve, the $x$ axis and the ordinates $x=a$ and $x=b$, where $a, b \in Z$. | Applying trigonometric identities. <br> Sine, Cosine and Area rules. <br> Solving problems in 2 and 3 dimensions. |  |  | Revise earlier work on the necessary and sufficient conditions for polygons to be similar. Introduce and apply the following theorems: <br> - That a line drawn parallel to one side of a triangle divided the other two sided proportionally <br> - That equiangular triangles are similar. <br> - That triangles with sides in proportion are similar. |  |  |  | Consolidation |
| SBA | Assignment |  |  |  |  | Assignment |  |  |  |  |

2021 ATP: Term 3: TECHNICAL MATHEMATICS GRADE 12

| TERM 3 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week10 | Week 11 | Week 9 |
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| CAPS Topics | Circles, angles and angular movement (grade 11) |  |  | Finance, growth and decay (grade 11) |  |  | Revision |  |  |  |  |  |
|  | - Angles and arcs <br> - Degrees and radians <br> - Sector and segments <br> - Angular and Circumferential velocity |  |  | Use simple and compound decay formulae <br> The effect of different periods of compound growth and decay , including nominal and effective interest rates |  |  |  |  |  |  |  |  |
| SBA | Test |  |  |  |  |  |  |  |  |  | xamination |  |

2021 ATP: Term 4: TECHNICAL MATHEMATICS GRADE 12


