## 2021 ATP: Grade 10 - Term 1: TECHNICAL MATHEMATICS

| TERM 1 | Week $1 \quad$ Week 2 | Week 3 | Week 4 | Week 5 |  | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CAPS Topics | Introduction (Revision of basic algebra) | Number systems (including binary numbers and introduction of complex numbers) |  |  | Exponents |  |  | Mensuration | Algebraic Expressions |  |
| Topics /Concepts, Skills and Values | 1. Simplifying, adding, subtracting, multiplying and division of algebraic fractions with numerators and denominators limited to the polynomials covered in factorisation. | 1. Identify ra or recurring $a, b \in \mathbf{Z}$ and b 2. Understan | mbers and into the for <br> mple surds | terminating where <br> rational. |  | Simplify ex <br> Solve exp (accepting hold for $r$ are not n rational). | ing the laws exponents. ions of exponents and solutions ral or even | Conversion of units, square units and cubic units. | 1. Establish between w <br> 2. Round real number number of decimal d <br> 3. Revise scientific not <br> 4. Manipulate algebraic <br> - multiplying a bino <br> - factorising comm <br> - factorising by gro <br> - factorising trinom <br> - factorising differe <br> - factorising the diff <br> - simplifying, addi fractions with nu covered in facto | surd lies. accuracy (to a given <br> and division of algebraic ited to the polynomials |
| SBA | Investigation or project |  |  |  |  |  |  | Test |  |  |

## 2021 ATP: Grade 10 - Term 2: TECHNICAL MATHEMATICS




2021 ATP: Grade 10 - Term 4: TECHNICAL MATHEMATICS

| TERM 4 | Week 1 | Week 2 | Week 3 | Week |  | Week5 |  | 6-10 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CAPS Topics | Circles, angle | movement |  |  |  | REVISION |  |  |  |
| Topics /Concepts, Skills and Values | 1. Defin <br> 2. Indica degre to deg minut degre | hip between convert radia $s$ to radians a ad radians to | 1. Use the simple and problems, including population growth a <br> 2. Understanding the rates (e.g. on the p travel ) | ulae an inflation ms. foreign ports, |  |  | All Topics | ts, Skills and |  |
| SBA | TOTAL NUMBER OF SBA TASKS 7 Paper 1 <br> Term 1: Test (10\%) and Investigation / Project (15\%) |  | TOPIC |  | MARKS |  | TOPIC | MARKS | Paper 2 |
|  |  |  | Algebra (Expressions, equations and inequalities including nature of roots) |  | $60 \pm 3$ |  | Analytical Geometry | $15 \pm 3$ |  |
|  |  |  |  |  | Trigonometry | $40 \pm 3$ |  |
|  |  |  | 25 |  | Euclidean Geometry | $30 \pm 3$ |  |
|  | Term 2: Test (10\%) and Test (10\%) <br> Term 3: Test (10 \%) and Test (10 \%) <br> Term 4: |  |  |  | Finance, growth and decay |  | $15 \pm 3$ |  |  | Mensuration and circles, angles and angular movement | $15 \pm 3$ |
|  |  |  | TOTAL |  | 100 |  |  |  |  |
|  |  |  | TOTAL | 100 |  |  |  |  |

