## 2023/24 ANNUAL TEACHING PLANS: TECHNICAL MATHEMATICS: GRADE 10 (TERM 1)

| TERM 1 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 | WEEK 7 | WEEK 8 | WEEK 9 | WEEK 10 | WEEK 11 |
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| DATE COMPLETED |  |  |  |  |  |  |  |  |  |  |  |
| CAPS TOPICS | NUMBER SYSTEMS (INCLUDING BINARY NUMBERS AND INTRODUCTION OF COMPLEX NUMBERS) |  |  | EXPONENTS |  | ALGEBRAIC EXPRESSIONS |  |  |  |  | REVISION/ASSESSMENT |
| TOPICS/CONCEPTS, SKILLS AND VALUES | 1. Identify rational numbers and convert terminating or recurring decimals into the form $\frac{a}{b}$ where $a, b \in \mathbf{Z}$ and $b \neq 0$. <br> 2. Introduce binary and complex numbers <br> 3. Determine between which two integers a given simple surd lies <br> 4. Round real numbers to an appropriate degree of accuracy (to a given number of decimal digits) |  |  | 1. Simplify expressions using the laws of exponents for integral exponents <br> 2. Solve exponential equations (accepting that the laws of exponents hold for real exponents and solutions are not necessarily integral or even rational) <br> 3. Revise scientific notation |  | 1. Revise notation (interval, set builder, number line, sets) <br> 2. Adding and subtracting of algebraic terms <br> 3. Multiplication of a binomial by a binomial <br> 4. Multiplication of a binomial by a trinomial <br> 5. Determine the HCF and LCM of not more than three numerical or monomial algebraic expressions by making use of factorisation <br> 6. Factorise: <br> - Common factor (revision) <br> - Grouping in pairs <br> - Difference of two squares (revision) <br> - Trinomials <br> - Difference and sums of two cubes; and <br> 7. Algebraic fractions <br> - Simplifying, adding, subtracting, multiplying and division with numerators and denominators limited to the polynomials covered in factorisation |  |  |  |  | All Term 1 topics |
| PAT \& SBA | ASSIGNMENT \& TEST |  |  |  |  |  |  |  |  |  |  |

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## 2023/24 ANNUAL TEACHING PLANS: TECHNICAL MATHEMATICS: GRADE 10 (TERM 2)



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## 2023/24 ANNUAL TEACHING PLANS: TECHNICAL MATHEMATICS: GRADE 10 (TERM 3)



2023/24 ANNUAL TEACHING PLANS: TECHNICAL MATHEMATICS: GRADE 10
2023/24 ANNUAL TEACHING PLANS: TECHNICAL MATHEMATICS: GRADE 10 (TERM 4)


