

REVISION:
Grade 12 Mathematics
www.refractions.co.za
PAPER 1

@lgebra

| | | | |
|-------|-------------------------|--|--|
| R1001 | Factorization | | |
| R1002 | Equations | | |
| R1003 | Algebraic Fractions | | |
| R2001 | Exponents | | |
| R2002 | Surds | | |
| R2003 | Completing the Square | | |
| R2004 | Equations | | |
| R2005 | Inequalities | | |
| R2006 | Nature of Roots | | |
| R3001 | Logarithms | | |
| R3002 | Cubic Polynomials | | |
| R3003 | Rem. and Factor Theorem | | |

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Number @atterns

| | | | |
|-------|---------------------------|--|--|
| R2601 | Arithmetic Sequences | | |
| R2602 | Quadratic Sequences | | |
| R3601 | Geometric Sequences | | |
| R3602 | Arithmetic Series | | |
| R3603 | Geometric Series | | |
| R3604 | Infinite Geometric Series | | |
| R3605 | Sigma Notation | | |

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@unctions

| | | | |
|-------|-----------------------------------|--|--|
| R2201 | Introduction and Properties | | |
| R2202 | Finding the Equation | | |
| R2203 | Finding Intercepts | | |
| R2204 | Asymptotes | | |
| R2205 | Turning Point | | |
| R2206 | Sketching Graphs | | |
| R2207 | Domain and Range | | |
| R2208 | Axis of Symmetry | | |
| R2209 | Continuity | | |
| R2210 | Increasing and Decreasing | | |
| R2211 | Average Gradient | | |
| R2212 | Reflection and Translation | | |
| | Graphical Interpretation: | | |
| R2213 | GI: Length of Lines | | |
| R2214 | GI: Inequalities | | |
| R2215 | GI: Nature of Roots | | |
| R3201 | Horizontal and Vertical Line Test | | |
| R3202 | Inverses | | |

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@alculus

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|-------|--------------------------------|--|--|
| R3401 | Limits | | |
| R3402 | Gradient | | |
| R3403 | Differentiation: 1st principle | | |
| R3404 | Differentiation: Rules | | |
| R3405 | Tangent to Curve | | |
| R3406 | Graphs: Properties | | |
| R3407 | Graphs: Sketching | | |
| R3408 | Graphs: Determine Equation | | |
| R3409 | Practical Application | | |
| R3410 | Optimization | | |

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@inance

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|-------|------------------------------|--|--|
| R1701 | Simple Interest | | |
| R1702 | Hire Purchase | | |
| R1703 | Compound Interest | | |
| R2701 | Simple Decay | | |
| R2702 | Compound Decay | | |
| R2703 | Compound Intervals | | |
| R2704 | Nom. and Eff. interest rates | | |
| R2705 | Time Lines | | |
| R3701 | Future Value Annuities | | |
| R3702 | Payments beginning of period | | |
| R3703 | Sinking Funds | | |
| R3704 | Present Value Annuities | | |
| R3705 | Balance on Loan | | |
| R3706 | Time Period | | |
| R3707 | Delayed payments | | |

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@robability

(Available 2024)

| | | | |
|-------|----------------------------|--|--|
| R1901 | General overview on basics | | |
| R2901 | Dependent and Ind. events | | |
| R2902 | Venn Diagrams | | |
| R2903 | Tree Diagrams | | |
| R2904 | Contingency Tables | | |
| R3901 | Fund. Counting Principle | | |

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PAPER 2

Euclidian Geometry

| | | | |
|--|------------------------------|--|--|
| R8101 | Lines, Angles and Triangles | | |
| R8102 | Theorem of Pythagoras | | |
| R9101 | Quadrilaterals | | |
| R1101 | Quadrilaterals (Proving) | | |
| R9102 | Similarity and Congruency | | |
| R9103 | Angles of polygons | | |
| R1102 | Midpoint Theorem | | |
| R1103 | Summative Exercises | | |
| R2101 | Theorem one to two | | |
| R2102 | Theorem three to five | | |
| R2103 | Theorem six to seven | | |
| R2104 | Summary (Euclidian Theorems) | | |
| R3101 | Proportionality Theorem | | |
| R3102 | Similar Triangles | | |
| R3103 | Pythagoras' Theorem | | |
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Trigonometry

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|--|----------------------------------|--|--|
| R1301 | Ratios | | |
| R1302 | Quadrants (CAST) | | |
| R1303 | Special Angles | | |
| R2301 | Reduction Formulas | | |
| R2302 | Identities | | |
| R2303 | Equations | | |
| R3301 | Compound Angles | | |
| R3302 | Double Angles | | |
| R3303 | Expressions in terms of variable | | |
| R2304 | 2D Trigonometry | | |
| R3304 | 3D Trigonometry | | |
| R2305 | Trigonometric Functions | | |
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Analytical Geometry

| | | | |
|--|----------------------------|--|--|
| R1501 | Average Gradient | | |
| R1502 | Distance Formula | | |
| R1503 | Midpoint Formula | | |
| R1504 | Straight Lines | | |
| R1505 | Quadrilaterals | | |
| R2501 | Angle of Inclination | | |
| R3501 | Equation of a Circle | | |
| R3502 | Intersection of Circles | | |
| R3503 | Tangents to Circle | | |
| R3504 | Straight lines and Circles | | |
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Statistics

(Available 2024)

| | | | |
|--|-----------------------------------|--|--|
| R1801 | Central Tendency and Dispersion | | |
| R1802 | Tables and Diagrams | | |
| R2801 | Histograms and Frequency Polygons | | |
| R2802 | Ogives | | |
| R2803 | Variance and Standard Deviation | | |
| R2804 | Data Symmetry and Outliers | | |
| R3801 | Bivariate Data | | |
| R3802 | Least Squares Regression Line | | |
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