

CURRICULUM CONTENT

1) Indices and surds

- Integer indices
- Fractional indices
- Manipulation of surds

2) Coordinate geometry

- Equation of a straight line
- General equation of a straight line
- Parallel and perpendicular lines

3) Quadratic functions

- Factorising quadratic equations
- Completing the square
- The quadratic formula

4) Graphic functions

- Sketching cubic graphs
- Sketching reciprocal graphs
- Translating a graph
- Reflecting and stretching a graph
- Transforming graphs of functions

5) Sequences and series

- General term of a sequence
- Recurrence formulae
- Arithmetic series
- Sum of an arithmetic series
- The sigma notation

6) Trigonometry

- The sine rule
- The cosine rule
- Area of a triangle
- Radian measure
- Trigonometric functions
- Standard trigonometric results
- Trigonometric graphs
- Transformations of trigonometric graphs
- Trigonometric identities
- Solving trigonometric equations

