

## Year 11 Further Maths – Topics for April & May Assessments

### Paper 1 – Non-calculator

- Equation of a line
- Solving equations involving powers and roots
- Matrix multiplication
- Coordinates using ratios
- Differentiation
- Algebraic proof
- Solving equations using trigonometric graphs
- Circle theorems
- Exact value trigonometry
- Manipulating surds

### Paper 2 – Calculator

- Matrix multiplication
- Gradients using coordinates
- Index laws / simplifying
- Quadratic graphs
- Quadratic inequalities
- Sequences – linear and quadratic
- Volume of a sphere
- Simplifying algebraic fractions and expressions
- Circle theorems and geometric proof