YEAR 11 MATHS • HIGHER

REDHILL ACADEMY TRUST
Equality and Achievement

Mock revision checklist 2026–27

Use this as your revision map. Tick a topic when you can answer a question on it without notes, then revisit anything you are not yet confident with.

Number & proportion

- ☐ Exact fraction calculations and mixed numbers
- ☐ Fractions to decimals
- ☐ Standard form
- ☐ Metric units and currency conversions
- ☐ Estimation and approximation
- ☐ Bounds
- ☐ Percentage increase and reverse percentages
- ☐ Percentage problem solving
- ☐ Ratio, including n:1 and sharing
- ☐ Direct proportion and proportionality
- ☐ Algebraic ratios
- ☐ Surds and rationalising denominators
- ☐ Fractional laws of indices

Algebra & graphs

- ☐ Simplifying and expanding expressions
- ☐ Factorising quadratics
- ☐ Completing the square
- ☐ Solving linear equations

- ☐ Rearranging formulae
- ☐ Substitution
- ☐ Identities
- ☐ Quadratic graphs
- ☐ n^{th} term
- ☐ Simultaneous equations graphically
- ☐ Iteration
- ☐ Functions
- ☐ Inequalities and inequality regions
- ☐ Straight lines: y = mx + c
- ☐ Perpendicular lines

Geometry & measures

- ☐ Parts of a circle
- ☐ Shape properties
- ☐ Coordinates and area of a triangle
- ☐ Transformations
- ☐ Congruency
- ☐ Similarity
- ☐ Pythagoras theorem
- ☐ Trigonometry
- ☐ Sine and cosine rules
- ☐ Area using ½ ab sin C
- ☐ Circle theorems
- ☐ Plans and elevations

- ☐ Volume of cones and spheres
- ☐ Area of a trapezium

Statistics & probability

- ☐ Pie charts
- ☐ Two-way tables
- ☐ Relative frequency
- ☐ Probability tree diagrams
- ☐ Cumulative frequency and box plots
- ☐ Frequency tables
- ☐ Histograms