

Revision checklist

Grade 9

Number

- ☐ Complex exact calculations involving surds, indices and standard form
- ☐ Multi-step upper and lower bounds problems
- ☐ Proof and reasoning involving numerical relationships

Algebra

- ☐ Challenging algebraic identities and proof
- ☐ Complex factorisation and quadratic equations
- ☐ Completing the square in unfamiliar contexts
- ☐ Composite functions and inverse functions
- ☐ Iteration and accuracy of numerical solutions
- ☐ Complex quadratic inequalities
- ☐ Circle equations and tangent problems
- ☐ Graph transformations and intersections of functions
- ☐ Interpreting gradients and areas under non-linear graphs
- ☐ Multi-step problems combining algebra, graphs and geometry

Ratio and proportion

- ☐ Unfamiliar direct and inverse proportion problems
- ☐ Multi-stage growth and decay
- ☐ Compound percentage and proportionality problems
- ☐ Problems connecting algebra, similarity and rates of change

Geometry

- ☐ Multi-step circle theorem proofs
- ☐ Advanced vector proofs
- ☐ Complex 3D trigonometry
- ☐ Problems combining sine rule, cosine rule, area and similarity
- ☐ Unfamiliar geometric reasoning and proof
- ☐ Composite mensuration involving several shapes and formulae

Probability

- ☐ Complex conditional probability
- ☐ Multi-stage problems requiring selection of an efficient method
- ☐ Algebraic probability and interpretation of assumptions

Statistics

- ☐ Complex interpretation and comparison of distributions
- ☐ Combining statistical measures with reasoning
- ☐ Evaluating conclusions, sampling limitations and extrapolation

Disclaimer: The grade groupings (Grades 1–3, 4–6 and 7–9) are intended as a general guide only. They are approximate and are not fixed boundaries, as the difficulty of a topic can vary depending on the question and the skills required. Some topics may overlap between grade groups, and students may need to revisit earlier skills before progressing to more challenging material. The actual GCSE grade achieved will depend on overall performance across the full exam, not on individual topics alone