Revision Checklist!

Algebra

Manipulation
Changing the subject and rearranging
Expanding brackets
Factorising
Completing the square
Simplifying algebraic fractions
Adding and subtracting algebraic fractions
Composite and inverse functions
Algebraic proof

Solving equations
Form and solving all linear equations
Linear simultaneous equations
Linear and quadratic simultaneous equations
Solving quadratics by factorising (single x squared)
The Quadratic Formula
Solving quadratics by completing the square
Iteration

Sequences
Find and use linear nth term
Finding the nth term of a quadratic sequence
Geometric and exponential sequences
Recursive sequences
Special sequences

Transformations
Translations
Reflections
Rotations
Enlargements
Identify combined transformation
Transformations of graphs

Vectors
Manipulating vectors
Vectors
Vector proof

Coordinate geometry
Equation of a straight line from a graph
Equation of a straight line graph from the gradient and a point
Equations of a straight line graph from two points
Equation of parallel and perpendicular lines
Inequality regions
Plotting and recognising graphs of all functions
Approximating solutions from graphs
Quadratic inequalities
Turning points and roots
Equation of a circle and a tangent to a circle

Geometry

Constructions and loci
Constructions
Loci
Plans, elevations and scale drawings

Compound measures
Area under a graph
Speed distance time graphs
Velocity time graphs
Worded speed, distance and time
Pressure, Force and Area
Density, Mass and Volume
Converting compound measures

Trigonometry
Pythagoras' Theorem
SOHCAHTOA
Exact trigonometric values
Sine rule
Cosine rule
Area of a triangle
Trigonometric graphs

Angles
Angles on parallel lines
Angles in polygons
Bearings
Circle theorems

Perimeter, area, volume and surface area
Area of a trapezium
Area and circumference of circles
Arc length and area of a sector
Volume and surface area of prisms
Volume and surface area of a pyramid
Volume and surface area of a cone
Volume and surface area of a sphere
Similar shapes including area and volume
Congruent triangles

Stats and Probability

Other stats
Two way tables
Drawing and reading pie charts
Scatter graphs
Sampling methods

Averages, quartiles and the range
Finding data from averages
Advantages and disadvantages of averages
Averages from grouped frequency tables
Finding the upper and lower quartile and interquartile range

Cumulative frequency and box plots.
Constructing and comparing box plots
Drawing and reading cumulative frequency curves

Histograms
Drawing and reading Histograms
Estimating the median from a Histogram

Probability
Relative frequency
Experimental and theoretical probability
Probability tree diagrams
Conditional probability
Complete and interpret Venn diagrams
Product rule for counting

Number

HCF and LCM
Highest common factor and lowest common multiple
Product of prime factors

Surds
Simplifying surds
Expanding double brackets with surds
Rationalising the denominator
Complex surds

Standard form and indices
Fractional and negative indices
Converting standard form
Calculating with standard form

Fractions
Fractions of amounts
Adding and subtracting fractions and mixed numbers
Multiplying and dividing fractions and mixed numbers
Converting between recurring decimals and fractions

Limits of accuracy
Estimation
Error Intervals
Upper and lower bounds

Percentages
Percentages of amounts
Percentage increase and decrease
Calculating the percentage change
Simple interest
Compound interest and depreciation
Reverse percentages

Ratio and Proportion

Proportion
Recipes and Best buys
Exchange rates
Direct and Inverse Proportion
Proportionality graphs

Ratio
Equivalent ratios and writing as 1 : n
Dividing into a ratio
Find quantities in a ratio when given one value
Find quantities in a ratio when given the difference
Adding ratios