**Predictions for maths calculator paper**

Higher Tier

Area and circumference of a circle

Simultaneous equations

Estimating the mean from a grouped frequency table

Cumulative frequency diagrams - drawing and using to find median and interquartile range

Plotting graphs of linear or cubic functions

The equation of a straight line (y=mx+c)

Trigonometry for right angled triangles - sohcahtoa

Sine and cosine rules

Ratio

Factorising expressions by taking out common factors

Expanding brackets then simplifying by collecting like terms e.g. 5(2x-3) - 3(4x-2)

nth terms

Angles on parallel lines - alternate and corresponding angles

Bearings

Trial and improvement

The difference of two squares

Tree diagrams

Histograms - finding the median

Vectors

**Predictions for maths calculator paper**

Foundation tier

Square numbers, cube numbers, square roots, prime numbers

Factors and multiples

nth terms

Ratio

BODMAS

Simplifying powers

Transformations - reflections in a diagonal line, rotations, translations, enlargements

The equation of a straight line (y=mx+c)

Plotting linear graphs

Trial and improvement

Symmetries - line and rotational

Factorisation by taking out common factors

Expanding brackets then simplifying by collecting like terms e.g. 5(2x-3) - 3(4x-2)

Changing the subject of a formula

Inequalities

Estimating the mean from a grouped frequency table

Compass constructions - bisect and angle, bisect a line

Bearings

Angles on parallel lines - alternate and corresponding angles