
GCSE: Edexcel Mathematics TOPICS FOR AUTOGRAPH [Sept 2021]

References to Pearson-Edexcel GCSE Mathematics

Foundation Tier

Red items not yet implemented in Web-Autograph

1. NUMBER

N Use of the number line

2. ALGEBRA

A8 Coordinates and graphs

A9 y = mx + c; parallel lines

A10 Gradient and intercept

A11 Roots and intercepts; turning points

A12 Linear, quadratic, cubic, reciprocal

A14 plotting graphs, including reciprocal

A17 Solving an equation by graphing

A18 Solve quadratic by factorising and graphing

A19 Two simultaneous equations

A22 Linear inequalities

3. RATIO and PROPORTION

R10 Direct and inverse graphs R16 Growth and decay

4. GEOMETRY and MEASURES

G1 Vertices; regular polygons

G2 Perpendicular from point to line

G3 Angle properties

G4 Quadrilaterals

G6 Pythagoras; isosceles triangles

G7 Rotate, reflect, translate, enlarge

G9 Circle properties

G12 Cube, cuboid, prism, cylinder Pyramid, cone, sphere

G13 3D shapes

G16 Area and volume

G18 Circle: arc length, sector area

G25 Vectors: add, subtract, multiply

5. PROBABLITY

P8 2-dice simulation

6. STATISTICS

S2 Frequency tables; charts;Line graphs for time seriesS4 Continuous and discrete; median, mean, mode and modal class, and spread

S6 Scatter diagram; line of best fit

Higher Tier

2. ALGEBRA

A7 Inverse function; composite function

A8 Coordinates and graphs

A9 y = mx + c; parallel and perpendicular

A10 Gradient and intercept

A11 Roots and intercepts; turning points
Completing the square

A12 Linear, quadratic, cubic, reciprocal

A13 Translation and reflection of function

A14 Plotting graphs, including exponential

A15 Gradient of graphs; area under graphs

Distance-time; velocity-time

A16 Equation of circle; equation of tangent

A17 Solving an equation by graphing

A18 Solving quadratic by formula

A19 Linear/linear; linear/quadratic

A20 Solving by iteration

A22 Graphing inequalities: linear, quadratic

3. RATIO and PROPORTION

R10 Direct and inverse graphs

R15 Gradient at a point on a curve

R16 Growth and decay

4. GEOMETRY and MEASURES

G1 Vertices; regular polygons

G2 Constructions and loci

G3 Angle properties

G4 Quadrilaterals

G6 Pythagoras; Isosceles triangles

G7 Rotate, reflect, translate, enlarge Negative enlargement factor

G8 Combinations of transformations invariance

G9 Circle: tangent, arc, sector and segment

G10 Standard circle theorems

G12 Cube, cuboid, prism, cylinder Pyramid, cone, sphere

G17 Formulae: circle, sphere, pyramid, cone

G18 Circle: arc length, sector area

G25 Vectors: add, subtract, multiply; translate

6. STATISTICS

S1 Population and sampling

S2 Frequency tables; charts; Line graphs for time series

S3 Grouped discrete/continuous data Histogram with unequal classes

S4 Median, mean, mode and spread Box plot; outliers

S6 Scatter diagram; line of best fit