

ALGEBRA TOPICS:**DATA AND PROBABILITY TOPICS:**

Forming and solving equations - D/C grade	Histograms: Complete table/graph Calculating with (median)
Quadratic formula	
Completing the square	
Trial and improvement	Averages & range: From lists/tables
plotting curved graphs (maybe straight lines)	
$y=mx+c$ with parallel/perpendicular lines	Box plots/comparing distributions
simultaneous eqns linear and quadratic	Probability trees
Algebraic fractions: Simplifying (incl + - / x) Solving	Sampling: Stratified Random Systematic Identifying bias in data collection
Inequalities: Representing on a number line Solving inequations Integer values	
Algebraic proof	
Sequences	Data collection sheet
Vectors	Pie charts
eqn of circle	problems with mean/missing numbers etc
Expand brackets	frequency polygon
solving equations	

SHAPE TOPICS**NUMBER TOPICS**

Trig: SOHCAHTOA Sine rule Cosine rule $1/2 ab \sin C$	Compound interest and depreciation
	Direct and inverse proportion
	Upper and lower bounds
	Ratio: Recipes Sharing in given ratio
Transforming/drawing trig graphs	
3d trig and pyth	Primes/factors and multiples
Circle Theorems	Standard form inc calculations
Similar Shapes, scale factors Congruent triangles Area/volume	Conversions: Currency Graphs Metric
	Rationalise the denominator
Transformations: describe and perform Translations Enlargements	Two-way table in disguise style questions
Area and circumference of circles and semi circles etc	Utility bill style questions
Surface area	Real life graphs (Comparing cost of services provided by different companies/SDT etc)
Constructions and loci	Prime factor form
Spheres	use calculator
Density, Mass, Volume	reverse percentages
Bearings	fractions (but using your calculator!)
Vectors	Best buys/value for money
Sector area, arc length area of segment	

Our top tips for topics to revise by Grade

sampling	A
Histograms	A*
Vectors	A*
A-A* trig	A-A*
tree diagrams	B-A*
solving inequalities	B-A*
simultaneous equations	B-A*
loci - where to plant the tree style Qs	B
similar shapes - harder scale factor	B
plot a quadratic graph	B
SOHCAHTOA	B
form and solve equations	C-B
surface area of triangular prism	C
Do or describe enlargements	C -A
Do or describe a translation	C
mean from a table (but might be in with a histogram at the end of the paper)	C
constructions - perpendicular and angle bisectors	C
currency conversion	C
Create a 2 way table from a worded problem	C
km to miles conversion	C
area or perimeter of semi circle	C
nth term and sequences	C
recipe	D
use calculator and round to decimal places, significant figures	D
Share into a ratio	D
Problem with percentage and fractions of amounts	D
Share into a ratio	D
Problem with percentage and fractions of amounts	D