NEWHAM COLLEGE LONDON

GCSE MATHS REVISION GUIDE

Topics Revision Guide: Week Commencing	GCSE Maths: Paper 1 (non- calculator) foundation and higher AM	GCSE Maths: Paper 2 (calculator) foundation and higher AM	GCSE Maths: Paper 3 (calculator) foundation and higher AM
Monday 17th March	Place value, ordering decimals, negative numbers. Factors, multiples, primes, HCF, LCM Fractions (simplifying, converting improper < > mixed). Estimating answers, rounding (SF & DP).	Calculator skills: order of operations, fractions of amounts, reverse percentages. Percentage increase/decrease. Repeated percentage change.	
Monday 24th March	Convert between fractions, decimals, percentages. Basic ratio and proportion (sharing amounts, simplifying ratios). Unit conversions (length, mass, time).	Compound measures (speed, density, pressure). Complex ratio problems. Scale drawings and map scales.	
Monday 31st March	Simplifying expressions. Expanding and factorising (single and double brackets). Solving linear equations (1-step, 2-step).	Substitution (positive and negative numbers). Rearranging formulas. Inequalities (solving & representing on number lines). Simultaneous.	
Monday 7th April Half-Term Revision Workshops (Selection of Topics)	Angles on a straight line, in triangles, at a point. Types of triangles and quadrilaterals Perimeter and area (squares, rectangles, triangles, parallelograms).	Surface area and volume (prisms, cylinders). Circles: circumference, area (memorise ℗ formulas). Bearings and scale drawings. Interior, exterior angles of polygons.	
Monday 14th April Half-Term Revision Workshops (Selection of Topics)	Coordinates in all quadrants. Straight line graphs: drawing, interpreting, gradient basics.	$y = mx + c$ (gradient & intercept, from equation or graph). Parallel and perpendicular lines (Higher). Real-life graphs (conversion, speed–time, distance–time).	
Monday 21st April	Averages from a list: mean, median, mode, range. Basic probability: fractions, decimals, number lines. Listing outcomes, frequency trees.	Probability scale, relative frequency Venn diagrams & two-way tables Probability trees (independent and dependent events).	
Monday 28th April	Reflection, rotation, translation, enlargement (scale factor only). Line and rotational symmetry.	Combined transformations Similar shapes (area & volume scale factors). Congruence.	
Monday 5th May	Full-topic recall: past paper practice under timed conditions. Prioritise: Number skills (FDP, estimation, ratios) Angles and shapes Linear equations Graphs and coordinates	Recap algebra: expanding, factorising, solving. Calculator-based averages and data interpretation (tables, charts).	
Monday 12th May	GCSE Maths: Paper 1 (non- calculator) foundation and higher AM Thursday 15th May.	Frequency polygons, cumulative frequency graphs. Interpreting statistical diagrams. Scatter graphs: line of best fit, correlation.	

Monday 19th May		Quadratic graphs: plotting and interpreting (Higher). Solving simultaneous equations (algebraic & graphically). Solving quadratic equations (by factorising or using a calculator). Functions, substitution, composite and inverse (Higher only).	
Monday 26th May Half-Term Revision Workshops (Selection of Topics)		Targeted revision: Ratio and proportion Graphs (linear, real-life) Geometry (circle formulae, surface area, volume) Statistics and probability. Past paper every other day timed. Revise weaker areas based on your Paper 2 mock results. How to use calculator efficiently and annotate work.	Go deeper into volume of spheres, cones, pyramids. Compound measures revisited.
Monday 2nd June		GCSE Maths: Paper 2 (calculator) foundation and higher AM Wednesday 4th June.	Paper 3 Practise. Cumulative recap: Geometry, Ratio, Algebra, Probability Past Paper Walkthroughs Mixed-topic problem solving Practice questions by topic: Ratio & proportion Real-life graphs Complex probability Area, volume & transformations Do one timed past paper every other day. Revise weaker areas based on Paper 2 mock results. Use calculator efficiently, annotate work.

PLEASE NOTE: IF YOU ARE SITTING THE GCSE MATHEMATICS – HIGHER TIER, YOU MUST REVISE ALL TOPICS, AND IN ADDITION, ENSURE YOU STUDY THE TOPICS SHADED IN GREEN.