

Summer

Year 10		I feel confident in...	I need to work on...
Sequences	Fibonacci, arithmetic sequences, triangular, square and cube sequences, diagrams, nth term, continue a geometric sequence, quadratic sequences, finite/infinite, ascending, descending		
Straight Line Graphs	Co-ordinates, plot and draw lines, $y=x$, $y=a$, $x=a$, table of values, $y=mx + c$, rearranging equations		
Non-Linear Graphs	Quadratic graphs, cubic graphs, reciprocal		
Co-ordinate Geometry	Problem solving with co-ordinates, including midpoints, given gradient and given two points, circle graphs, equations of parallel and perpendicular lines		
Real life graphs	Draw and interpret graphs in context of real life problems, interpret gradients		
Graphs	Quadratics, simultaneous equations, inequalities, reciprocal graphs, exponential graphs, gradient and area under graphs		
Solving Quadratics and Iteration	Solve quadratics by factorising, completing the square and quadratic formula, iteration		
Simultaneous Equations	Form and solve linear simultaneous equations, non-linear simultaneous equations		
Compound Measures	Density, pressure, speed convert between measurements		
Transformatic	Symmetry, enlargements, reflections, rotations, translations		

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Summer	Similarity and congruence	Congruent criteria (SSS, SAS, ASA and RHS), Similar shapes, scale factors, problem solving including 3D shapes (L, A, V scale factors)	
	Vectors	Column vectors, vector notation, vector calculations (e.g. parallel, straight line)	
	Tables and Charts	Data collection, types of data, bar charts, line graphs, pictograms stem and leaf diagrams	
	Sampling	Planning an investigation, types and problems with sampling	
	Presenting Data	Construct, interpret and compare pie charts, two way tables, frequency trees, Venn diagrams	
	Probability	Probability scale, theoretical probability, experimental probability, problem solving, probability trees, tree diagrams, conditional and experimental probability	
	Averages	Mean, median, mode, range, averages from a frequency table, grouped data frequency table, averages from charts and graphs	
	Frequency Diagrams	Frequency polygons, frequency diagrams	
	Scatter Graphs	Draw, interpret, outliers, line of best fit, interpolation v extrapolation, times series	
	cumulative frequency, box plots and histograms	Construct and interpret cumulative frequency diagrams, boxplots and histograms, averages from a histogram	