## Y10 Autumn

A - B1 - Trigonometry	A - B2 – Indices and roots	A - B3 – Equations and inequalities	A - B4 – Non-calculator methods	Sp - B1 – Simultaneous equations
- Recap similar triangles	- Types of number (powers and	- Form simple expressions	- Rounding	- Solve simultaneous equations
- Recap Pythagoras	square/cube roots)	- Solve equations 2 step, brackets,	- Four operations with integers	using graphs
- Right angled trigonometry	- Laws of indices	unknowns both sides	and decimals	- Solve linear simultaneous using
- Exact trigonometric values	- Negative indices	- Represent inequalities on a	- Four operations with fractions	elimination
- 3D Pythagoras & trigonometry	- Write numbers in standard form	number line	- Worded, multi-step problems	- Solve simultaneous by
(H)	- Calculations with numbers in	- Solve inequalities 2 step,	- Money problems	substituting
- Sine rule (H)	standard form	brackets, unknowns both sides	- Estimating	- Solve linear and non-linear
- Cosine rule (H)	- Simplifying surds (H)	- Form and solve inequalities and	- Rational and irrational numbers	simultaneous (H)
- Area of a triangle (H)	- Fractional indices (H)	equations	- Exact answers	
	- Changing the base (H)	- Recap linear graphs	- Error intervals	
		- Factorise quadratics a = 1 and a >	- Converting a recurring decimal	
		1 (H)	to a fraction (H)	
		- Quadratic formula (H)	- Surds: four operations &	
		- Represent inequalities using set	expanding brackets (H)	
		notation (H)	- Bounds calculations (H)	
		- Represent inequalities	- Rationalising the denominator	
		graphically (H)	(H)	
		- Solve quadratic inequalities (H)		

## Y10 Spring

Sp – B1 – Ratios and fractions	Sp – B2 – Percentages and interest	Sp – B3 – Collecting, representing and	Sp – B4 - Types of number and sequences
		interpreting data	
- Recipes	- FDP equivalence	- Scatter graphs	- Factors and multiples
- Best buy	- Percentage of an amount	- Interpret pictograms, line graphs, time series	- Product of primes
- Currency conversion	- Percentage increase and decrease	and bar charts	- HCF and LCM
- Compare quantities using ratio	- Percentage change	- Averages including from tables	- Continue arithmetic and geometric sequences
- 1:n and n:1	- Reverse percentages	- Stem and leaf diagrams	- Sequences from pictures
- Share in a ratio (including problems	- Mixed percentage problems	- Interpret and draw pie charts	- nth term of a linear sequence
where you know part or difference)	- Simple and compound interest	- Frequency polygons	- nth term of a quadratic sequence (H)
- Link ratios, fractions and percentages	- Repeated percentage change	- Types of data	- Sequences involving surds (H)
- Combine ratios	- Solve problems involving growth	- Box plots and cumulative frequency (H)	
- Link ratio and algebra	and decay	- Histograms (H)	
- Use ratio with area and volume	- Iterative processes (H)	Sampling (capture / recapture) (H)	
problems (similar shapes) (H)			

## Y10 Summer

Su - B1 – Changing the subject	Su – B2 – Probability	Su – B3 – Angles and bearings (& revision)	Su - B4 – Graphs
- Solve equations and inequalities	- Single event probability	- Angles rules	- Plot and read quadratic graphs
- Change the subject of a formula	- Relative frequency / expected	- Angles in parallel lines	- Plot and read cubic graphs
- Use a range of formulae; rearranging	outcomes	- Scale drawings	- Reciprocal graphs
to use them eg. Speed, density,	- Probability from tables, frequency	- Bearings	- Recognise different graph shapes
pressure, area of circle etc	trees and Venns	- Pythagoras and trigonometry	- Conversion graphs
- Change the subject where the subject	- Sample space diagrams	- Bearings problems involving Pythagoras and	- Distance time graphs
appears more than once (H)	- Tree diagrams	trigonometry	- Speed time graphs
- Solve quadratic equations (H)	- Relative frequency / experimental	- Bearings problems using sine / cosine (H)	- Graphs of inverse and direct proportion
- Solve equations by iteration (H)	/expected outcomes	- Circle theorems: Angles at the centre and	- Exponential graphs (H)
	- Dependent tree diagrams (H)	circumference, angles in a semi-circle, angles	- Equation of a circle centre 0 (H)
	- Product rule (H)	in the same segment, angles in a cyclic	- Area under a curve (H)
	- Algebraic probability (H)	quadrilateral (H)	
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