Chapter	Time		Topic Break-Down	Learning Objectives (Students will be able to)
22: Geometry and measure: Right-angled triangles	**18**	22.1	Pythagoras' theorem	Know what Pythagoras' theorem is
				Calculate the length of the hyptenuse in a right-angled triangle
		22.2	Find the length of a shorter side	Calculate the length of a shorter side in a right-angled triangle
		22.3	Applying Pythagoras' theorem in real-life situations	Solve practical problems involing Pythagoras' thereom
		22.4	Pythagoras' theorem and isosceles triangles	Use Pythagoras' theorem and isosceles triangles
		22.5	Trigonometric ratios	Define, understand and use the three trigonometric ratios
		22.6	Calculate lengths using trigonometry	Use trigonometric ratios to calculate a length in a right-angled triangle
		22.7	Calculate angles using trigonometry	Use trigonometric ratios to calculate an angle in a right-angled triangle
		22.8	Triogonometry without a calculator	Work out and remember trigonometric values for angles of 30, 45, 60 and 90 degrees
		22.9	Solving problems using trigonometry	Solve practical problems using trigonometry
				Solve problems using an angle of elevation or an angle of depression
		22. 10	Trigonometry and bearings	Solve bearing problems using trigonometry
		22.11	Trigonometry and isosceles triangles	Find a missing length in an isosceles triangle
23: Geometry and measure: Congruency and similarity	**2**	23.1	Congruent triangles	Demonstrate that two triangles are congruent

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23: Geometry and measure: Congruency and similarity	**6**	23.2	Similarity	Recognise similarity in any two shapes
				Show that two shapes are similar
				Work out the scale factor between similar shapes
24: Probability: Combined events	**8**	24.1	Cobined events	Work out the probability when two or more events occur at the same time
		24.2	Two-way tables	Read two-way tables and use them to work out probabilities
		24.3	Probability and Venn diagrams	Use Venn diagrams to solve probability questions
		24.4	Tree diagrams	Understand frequency tree diagrams and probability tree diagrams
				Use probability tree diagrams to work out the probabilities involved in combined events
25: Number: Powers and Standard form	**8**	25.1	Powers (indices)	Write a number as a power of another
				Use powers (also known as indices)
				multiply and divide by powers of 10
		25.2	Rules for multiplying and dividing powers	Use rules for multipying and dividing powers
				Multiply and divide numbers by powers of 10
		25.3	Standard Form	Write a number in Standard form
				Calculate with numbers in standard form

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26: Algebra: Simultaneous equations and linear equations	**12**	26.1	Elimination method for simultaneous equations	Solve simultaneous linear equations in two variables using the elimination method
		26.2	Substitution method for simultaneous equations	Solve simultaneous linear equations in two variables using the substitution method
		26.3	Balancing coefficients to solve simultaneous equations	Solve simultneous linear equations by balancing coefficents
		26.4	Using simultaneous equations to solve problems	Solve problems using simultaneous equations
		26.5	Linear inequalities	Solve a simple linear inequality and represent it on a number line

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27: Algebra: Non-linear graphs	**10**	27.1	Distance-time graphs	Interpret distance-time graphs
				Draw a graph of the depth of liquid as a container is filled
		27.2	Plotting quadratic graphs	Draw and read values from quadratic graphs
		27.3	Solve quadratic equations by factorisation	Solve a quadratic equation by factorisation
		27.4	The significant points of a quadratic curve	Identify the significant points of a quadratic function graphically
				Identify the roots of a quadratic function by solving a quadratic equations
				Identify the turning point of a quadratic function
		27.5	Cubic and reciprocal graphs	Recognise and plot cubic and reciprocal graphs

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Week Commencing 15th May - Year 11 Public Exams