Term	Week	Hours	Chapter: Topic	Topic break-down (sub-topics)	Learning Objectives: Students will be able to:
Term 1 – Module 1 and 2	**Week 1**	4	Review and revision 10		
	Week 2 – 4	10	**20: Geometry and measures: Curved shapes and pyramids**	20.1 Sectors	• calculate the length of an arc • calculate the area and angle of a sector.
				20.2 Pyramids	• calculate the volume and surface area of a pyramid.
				20.3 Cones	• calculate the volume and surface area of a cone.
				20.4 Spheres	• calculate the volume and surface area of a sphere.
	Week 5 – 6	7	**21: Algebra: Number and sequences**	21.1 Patterns in number	• recognise patterns in number sequences.
				21.2 Number sequences	• recognise how number sequences are built up • generate sequences, given the *n* th term.
				21.3 Finding the *n* th term of a linear sequence	• find the *n* th term of a linear sequence.
				21.4 Special sequences	• recognise and continue some special number sequences • understand how prime, odd and even numbers interact in addition, subtraction and multiplication problems.
				2.5 General rules from given patterns	• find the *n* th term from practical problems involving sequences.
	Week 7	3	Review and revision 11		
	Week 8/9	Half term Break			
	Week 1	4	Algebra: Recap and review		
	Week 2 – 5	14	**22: Geometry and measures: Right-angled triangles**	22.1 Pythagoras' theorem	• Know what Pythagoras' theorem is • calculate the length of the hypotenuse in a right-angled triangle.
				22.2 Calculating 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 problems using Pythagoras' theorem
				22.4 Pythagoras' theorem and isosceles triangles	• use Pythagoras' theorem in isosceles triangles.
				22.5 Trigonometric ratios	• define, understand and use the three trigonometric ratios.
				22.6 Calculating lengths using trigonometry	• use trigonometric ratios to calculate a length in a right-angled triangle.
				22.7 Calculating angles using trigonometry	• use the trigonometric ratios to calculate an angle.
				22.8 Trigonometry without a calculator	• work out and remember trigonometric values for angles of 30°, 45°, 60° and 90°.
				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.	• use trigonometry to solve problems involving isosceles triangles.
	Week 6	3	Mock examinations and revision		
	Week 7	4	Mock examinations and revision		
	Week 8	Christmas Break			
	Week 9	Christmas Break			

Term	Week	Hours	Chapter: Topic	Topic break-down (sub-topics)	Learning Objectives: Students will be able to:
Term 2 – Module 3 and 4	1 – 2			23.2 Similarity	• recognise similarity in any two shapes • show that two shapes are similar • work out the scale factor between similar shapes.
	Week 3 – 4	7	24: Probability: Combined events	24.1 Combined events	• work out the probabilities 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.
	Week 5	3	Review and revision 12		
	Week 6	Half Term Break			
	Week 1 – 3	11	25: Number: Powers and standard form	25.1 Powers (indices)	• write a number as a power of another number • use powers (also known as indices) • multiply and divide by powers of 10.
				25.2 Rules for multiplying and dividing powers	• use rules for multiplying 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.
	Week 4 – 5	7	26: Algebra: Simultaneous equations and linear inequalities	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 simultaneous linear equations by balancing coefficients.
	Week 6	4	Review and revision 13		
	Week 7	EASTER BREAK			
	Week 8	EASTER BREAK			

Term	Week	Hours	Chapter: Topic	Topic break-down (sub-topics)	Learning Objectives: Students will be able to:
Term 3 – Module 5 and 6	Week 1	4	26: Algebra: Simultaneous equations and linear inequalities	26.4 Using simultaneous equations to solve problems	• solve problems using simultaneous linear equations.
				26.5 Linear inequalities	• solve a simple linear inequality and represent it on a number line.
	Week 2 – 4	10	27: Algebra: Non-linear graphs	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 Solving 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 equation. • identify the turning point of a quadratic function.
				27.5 Cubic and reciprocal graphs	• recognise and plot cubic and reciprocal graphs.
	Week 5 – 6	7	Revision		
	Week 7	Half Term Break			
	Week 1 – 2	7	Revision		
	Week 3	3	June examinations		
	Week 4	4	June examinations		