

Subject area: Mathematics Year 10 Foundation

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Calculating	Mathematical	Pattern	Conjecturing	Solving	Mathematical
-	Space 1	Movement 1	Sniffing		Equations 2	Movement 2
				Algebra:		
	Calculating	Algebra:	Solving	Graphs	Probability	Visualising and
		Quadratics	Inequalities			construction
	Solving			Calculating:	Presentation of	
	Equations 1	Proportional	Calculating	Fractions,	Data	Revision of key
		Reasoning	Space 2	Decimals and		concepts as
				Percentages		identified from
						assessments
Assessment	Year 10 Test 1	Year 10 Test 2	Year 10 Test 3	Year 10 Test 4	Sparx Homeworks	Mock Exams
	Sparx	Sparx	Sparx	Sparx	Mini-Tests	(Calc & Non-Calc)
	Homeworks	Homeworks	Homeworks	Homeworks		Sparx Homeworks
	Mini-Tests	Mini-Tests	Mini-Tests	Mini-Tests		Mini-Tests
H/W	Half Exam	Half Exam Papers	Half Exam	Half Exam Papers	Half Exam Papers	Half Exam Papers
	Papers	Sparx Maths	Papers	Sparx Maths	Sparx Maths	Sparx Maths
	Sparx Maths		Sparx Maths			
Literacy	Famous	Engineering	Astronomy	Sport	Art	
, Task	Mathematicians					

Literacy	Use of Tier 2 vessbulary in lessons					
Literacy	Use of Tier 3 vocabulary in lessons Mini-tests focussing on knowledge and literacy					
	Literacy maths challenge in Spring term					
	Half termly Cross Curricular Literacy					
	Calculate with roots and integer indices					
Building on	Manipulate algebraic expressions by expanding the product of two binomials					
prior	• Manipulate algebraic expressions by factorising a quadratic expression of the form $x^2 + bx + c$					
learning	 Understand and use the gradient of a straight line to solve problems 					
	 Solve two linear simultaneous equations algebraically and graphically 					
	 Plot and interpret graphs of quadratic functions 					
	Change freely between compound units					
	• Use ruler and compass methods to construct the perpendicular bisector of a line segment and to bisect					
	an angle					
	 Solve problems involving similar shapes 					
	• Calculate exactly with multiples of π					
	 Apply Pythagoras' theorem in two dimensions 					
	 Use geometrical reasoning to construct simple proofs 					
	Use tree diagrams to list outcomes					
Enrichment	National Mathematics Challenge for students who show very good problem solving skills.					
within	Maths Challenges and House Competitions					
the Curriculum	Sparx Leader Board					
Extracurricular	Lunchtime support offered where students require extra help.					
opportunities	Beat the teacher maths clubs.					
	KS4 Maths clubs					
Positive	In Maths lessons students are always encouraged to portray British Values. They are also encouraged to					
impacting on	delve deeper into their understanding of Mathematics and how it relates to the world around them.					
personal development	Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking,					
(SMSC)	discussion, explaining and presenting ideas. Students are always encouraged to develop their Mathematical					
(000)	reasoning skills, communicating with others and explaining concepts to each other. Self and peer reviewing					
	are very important to enable students to have an accurate grasp of where they are and how they need to					
	improve.					
Preparing for	Development of topics in the areas of Number, Ratio and Proportion, Algebra, Geometry and Statistics					
the next						
stage of						
education						



Ways to support your child's learning	Check student planner / Inspire for Maths homework and support them with this. Access to commercial websites, have many resources and videos for you to help support your child's learning and revision for assessments. Numeracy can be developed adding totals during a supermarket shop, working with percentages in shop sales etc. Useful Websites: Sparx Maths- https://www.sparxmaths.uk/ Corbettmaths- www.corbettmaths.com Mymaths- https://www.mymaths.co.uk/ BBC Bitesize- https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb Mathsgenie- https://www.mathsgenie.co.uk/gcse.html Mathsbot- https://mathsbot.com/ Maths Made Easy- https://mathsmadeeasy.co.uk/ On Maths- https://www.onmaths.com/ Exam Solutions- https://www.examsolutions.net/gcse-maths/ Study Maths- https://studymaths.co.uk/	
Response to COVID	Targetted starters to address gaps in knowledge	
	Sparx homework based on gaps in knowledge	
Cross Curricular Links	l averages converting units data collection tables SDT_EPA_DMV_Standard Form_Pythagoras	

Assessment Tracking

Test	Date	Percentage
Year 10 Test 1		
Year 10 Test 2		
Year 10 Test 3		
Year 10 Test 4		
Year 10 Mock Exam Paper 1 (Non-Calculator)		
Year 10 Mock Exam Paper 2 (Calculator)		