Maths	Year 11 Core Knowledge –	How to support students' learning
	Autumn/Spring/Summer term	
	Autumn Term	
	Probability –	Follow the teacher's guidance and use Sparx
	1. Find probabilities from a sample space	Maths to support home learning. If your
	diagram (M718).	child is struggling with a particular skill
	2.Use product rule for finding total	encourage them to use the support
	number of possible outcomes (U369).	materials or contact their teacher to resolve
	3.Calculate probability of independent	the issue. Sparx Maths will send a homework
	events.	update. Please encourage your child to
	4.Expected outcomes (M206) (U166).	complete the homework to the best of their
	5.Using experimental data to estimate	ability. The homework is a recap of the skills
	probabilities (M322) (U580).	they have been taught. Encourage students
	of trials loads to a more assurate	to attend past paper society on a Tuesday
	estimate of the theoretical	evening. Use mathsgenie.co.uk to access
	probability	GCSE style questions for topics and GCSE
	7.Use the conditional probability formula	paper practise.
	(U821).	
	8.Finding conditional probabilities from	
	two-way tables (U246).	
	9.Construct frequency trees (U280).	
	10.Find probabilities from frequency trees	
	(U280).	
	11.Solve problems with frequency	
	trees (U280).	
	12.Use tree diagrams for independent	
	events (M299) (U558).	
	13.Use tree diagrams for dependent	
	events (M572) (U729).	
	14. Construct and Interpret conditional	
	15 Understand and use the union of sets	
	(M834)	
	16.Understand and use the intersection of	
	sets (M834).	
	17.Understand and use the complement	
	of a set (M834).	
	18.Using set notation (M834) (U296).	
	19. Finding conditional probabilities from	
	Venn diagrams(U699).	
	Sampling & Graphical Representation of	
	Data –	
	20.Capture-recapture (U328).	
	21.Construct a stratified sample.	
	22.CONSTRUCT DOX PIOTS (U8/9).	
	23.Interpret box plots (U837).	

	24.Construct cumulative frequency	
	diagrams (U182).	
	25.Use cumulative frequency diagrams to	
	find measures.	
	26.Interpret cumulative frequency	
	diagrams (U642).	
	27.Construct histograms (U814).	
	28.Interpret histograms (U983).	
	29.Calculating averages from histograms (U267).	
	30.Criticise charts and graphs.	
	31.Compare distributions using charts and measures (U520).	
	32.Compare distributions using	
	cumulative frequency graphs and box	
	plots (U507).	
Co	ongruency and Similarity –	
	33.Locus of distance from a point (M253)	
	(U820).	
	34.Locus equidistant from two points	
	(M253) (U820).	
	35.Locus of distance from a straight	
	line/shape (M253) (U820).	
	36.Locus of distance from two lines	
	(M253) (U820).	
	37.Construct triangles when given SSS (M565) (U187).	
	38.Construct triangles when given SAS and ASA (M565) (U187).	
	39.Construct a perpendicular bisector (M239) (U245).	
	40.Construct a perpendicular from a point (M239) (U245)	
	41.Construct a perpendicular to a point	
	(M239) (U245).	
	42.Construct an angle bisector (M232) (U787).	
	43.Prove a pair of triangles are congruent	
	(U4/1).	
	44.Understand and represent vectors	
	(UD32). 15 Draw and understand addition and	
	subtraction of vectors (1902)	
	46 Describe translations of shapes (M130)	
	(U196).	
	47.Translate shapes by a given vector	
	(MIJJJ) (UIJU). A8 Describe rotation (MQ10) (UISOS)	
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 50.Rotate a shape about a point (M910) (U666). 51.Describe reflection (M290) (U799). 53.Identify invariant points and lines. 54.Work out missing sides and angles in a pair of given similar shapes (M324) (U578). 55.Explore areas of similar shapes (M324) (U110). 57.Solve mixed problems involving similar shapes (U112). 58.Draw and understand vectors multiplied by a scalar (U564). 59.Describe enlargements (M178) (U519). 60.Enlarge a shape by a positive integer scale factor (U319). 61.Enlarge a shape by a positive integer scale factor (U34). 63.Enlarge a shape by a positive integer scale factor (U134). 63.Enlarge a shape by a negative scale factor (U134). 64.Combining transformations (M881, U766). 65.Simplify algebraic fractions by cancelling common factors (M568) (U103). 66.Simplify algebraic fractions by factorising into one bracket (M754) (U234). 63.Simplify algebraic fractions by factorising into one bracket (M754) (U234). 63.Add and subtract algebraic fractions (M336) (U685). 69.Multiphy algebraic fractions (U457). 70.Divide algebraic fractions (U457). 71.Divide algebraic fractions (U457). 72.Experseen tumbers algebraic fractions (M387) (U505). 72.Represent numbers algebraic fractions (M387) (U505). 73.Form algebraic proof (U582). Indices and surds - 74.Estimating roots and powers (U299). 75.Understand and use negative indices (M150) (U694). 		
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