Subject	Year 7 Threshold Knowledge –	How to support students' learning
-	Autumn/Spring/Summer term	
Maths	Autumn Term	
	Primes, Factors and Multiples -	
	1. Identify square roots.	 Follow the teacher's guidance and use Sparx
	2. Identify cube numbers.	Maths to support home learning.
	3. Identify cube roots.	 If your child is struggling with a particular
	4. Finding the lowest common multiple	skill encourage them to use the support
	(LCM) (M227, U751).	materials or contact their teacher to resolve
	5. Finding the highest common factor	the issue.
	(HCF) (M698, U529).	 Sparx Maths will send a homework update.
	6. Prime factor decomposition (M108,	Please encourage your child to complete the
	U739).	homework to the best of their ability. The
		homework is a recap of the skills they have
	Place Value and Ordering Numbers -	been taught.
	7. Rounding integers using significant	
	figures (M994, U731).	
	8. Rounding decimals using significant	
	figures (M131, U965).	
	9. Show solutions to inequalities on a	
	number line (M384, U509).	
	10. Interpret representations on number	
	lines as inequalities (M384, U509).	
	11. Understand the symbol ≠	
	Solving Broblems with Addition and	
	Subtraction -	
	12 Solve financial maths problems	
	(M901).	
	13. Solve problems involving tables and	
	timetables (M963).	
	14. Multiplying decimals (M803, U293).	
	15. Dividing decimals (M262, U868).	
	Spring Term	
	FDP Equivalence -	
	16. Convert a decimal to a fraction (M264,	
	U888).	
	17. Convert a decimal to a percentage	
	(M264, U888).	
	18. Convert a fraction to a decimal (M264,	
	U888).	
	19. Convert a fraction to a percentage	
	(M264, U888).	
	20. Convert a percentage to a decimal	
	(IVIZD4, UXXX).	
	21. Convert a percentage to a fraction	
	(IVIZ04, UXXX).	

22. Compare and order fractions,	
decimals and percentages (M553,	
U594).	
23. Calculate fractions of an amount with	
a calculator (M684, U916).	
24. Find a percentage of an amount with	
a calculator (M905, U349).	
25. Use a given fraction to find the whole	
and/or other fractions.	
Operations with Directed Number -	
26. Multiplication of directed numbers	
(M288, U548).	
27. Division of directed numbers (M288,	
U548).	
28. Add directed numbers (M106, U742).	
29. Subtract directed numbers (M106,	
U742).	
30. Understand and use order of	
operations (M521, U976).	
31. Using a calculator (M757, U926).	
Introduction to Algebra -	
32. Given an algebraic input, find the	
output of a function machine (M428).	
33. Find the function machine given an	
expression (M428).	
34. Knowing key terminology for algebra	
(M813).	
35. Simplify algebraic expressions by	
collecting like terms (M795, M531,	
U105).	
36. Simplify algebra with multiplication	
(M813, U613).	
37. Solve equations with one-step (M707,	
U755).	
38. Substituting into expressions (M417,	
M327, U201).	
Summer Term	
Addition and Subtraction of	
Fractions -	
39. Converting from improper fractions to	
mixed numbers (M601, U692).	
40. Converting from mixed numbers to	
improper fractions (M601, U692).	
41. Ordering fractions and mixed numbers	
(U439).	
42. Add and subtract fractions from	
integers expressing the answer as a	
single fraction (M835).	

43.	Adding fractions (M835, U736).	
44.	Subtracting fractions (M835, U736).	
45.	Use equivalence to add and subtract	
	decimals and fractions (M958).	
Seq	uences -	
46.	Find missing numbers within	
	sequences (M241, U213).	
47.	Check whether a term can be in a	
	sequence by inspection.	
48.	Describing types of sequences (M241,	
	U213).	
49.	Describe and continue other	
	sequences (Fibonacci, squares, cubes,	
	triangular) (M981, U68.	
50.	Describe and continue geometric	
	sequences (U958).	
51.	Generate linear sequences given an	
	algebraic rule (M166, U530).	
Geo	ometric Notation and Reasoning -	
52.	Use the equality of vertically opposite	
	angles (M163, U730).	
53.	Use the standard conventions for	
	labelling the sides and angles of	
	triangle ABC.	
54.	Use angle and line notation.	
55.	Apply the sum of angles in a triangle	
50	(M351, U628).	
56.	Apply the sum of angles in a	
	quadrilateral (M679, U732).	
Dra	hahility	
	Understand and use probability	
57.	nhrases (M655, 11803)	
52	Understand and use the probability	
58.	scale (M655)	
59	Use the property that probabilities	
55.	sum to 1 (M755, U683)	
60	Writing probabilities as fractions	
	decimals and percentages (M938	
	U510).	
61.	Listing outcomes.	
62.	Construct sample space diagrams	
	(M718, U104).	
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