PERSONALISED LEARNING CHECKLIST

Year 8 – White Rose Maths	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)

Areas of Study:

Topic 1: Ratio and Scale — Autumn Term

#	Area of Study	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)
1	Simplify and find equivalent ratios (Q2&5)	269	M885				
2	Share an amount in a given ratio (Q4&6)	270	M525				
3	Ratio problems where part of a ratio is given or where there is a difference between ratios (Q8)	274	M801				

Topic 2: Multiplicative Change

#	Area of Study	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)
4	Solve problems and explain direct proportion (Q1&2)	254-255	M478				
5	Use conversion graphs to make statements, comparisons and form conclusions. (Q3)	151-152 214a	M771				
6	Understand and use scale factors for length (Q5,6&7)	292a-293b	M324				

Topic 3: Multiplying and dividing fractions

#	Area of Study	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)
7	Carry out any multiplication or division using fractions and integers. (Q1-7)	134, 142, 145	M157 M110				

Topic 4: Working in the cartesian plane

#	Area of Study	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)
8	Label and identify lines parallel to the axes and use basic straight lines (Q1,3&4)	185, 186, 192, 193 196	M797				
9	Identify positive and negative gradients (Q5)	189	M544				
10	Plot y = mx + c graphs (Q2)	191	M932				

Topic 5: Representing data

#	Area of Study	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)
11	Draw, interpret and describe linear & non-linear correlation and relationships in scatter graphs. (Q3,5)	165, 166, 167, 168	M596				
12	Design and complete an ungrouped frequency table. (Q2)		M945				
13	Read and interpret grouped tables (discrete and continuous data) (Q1,4)	323	M441				
14	Represent data in two-way tables. (Q6&7)	319	M899				

Topic 6: Tables and probability

#	Area of Study	CM Link	Sparx Link	Red	Amber	Green	Revised (Tick)
15	Find the probability of a single event (Q1)	245	M941				
16	Construct a sample space diagrams (Q5)	246	M718				
17	Systematically list outcomes. (Q2&8)	253					
18	Find the probability from two-way tables. (Q3)	246	M718				
19	Find the probability from Venn diagrams. (Q6&7)	380	M419				

Topic 7: Brackets equations and inequalities				Spring Term			
20	Form Expressions (Q1,7&9)	16	M813				
21	Expand and factorise single brackets (Q2,3&5)	13, 117	M237 M100				
22	Form and solve equations (Q4&8)	14,15	M707 M634				
23	Solve inequalities (Q6)	178	M118				
Topic 8: Sequences							
24	Generate a sequence from term to term or position to term rules (Q1-2)	286	M241 M418				
25	Find and use nth terms (Q3-7)	288	M166 M991				
Topic 9: Indices							
26	Add/ Subtract expressions with indices (Q1)	172	M949				
27	Multiply and Divide expressions with indices (Q2-3)	172	M120				
28	Know the addition and Subtraction law for indices (Q4,5,7&8)	174	M608				
Topic 10: Fractions and percentages							
29	Convert between FDP less than and more than 100%. (Q1)	121-128	M264				
30	Increase or decrease using multipliers (Q2,4&6)	239	M533				
31	Express an amount as a percentage. (Q3)	237	M235				
32	Find percentage change. (Q7)	233	M533				
Topic 11: Standard index from							
33	Write numbers in standard form and as ordinary numbers (Q1-2)	300	M719 M678				
34	Order numbers in standard form (Q3)	300	M719 M678				
35	Add, Subtract Multiply/ Divide with standard form (Q4-6)	301 302					
Topic 12: Developing Number sense							
36	Round numbers to powers of 10, 1 significant figure and to any decimal place (Q1&2)	277a, 277b, 279a, 278	M111 M994 M131 M431				
37	Estimate solutions for square roots (Q7)	215	M135				
38	Convert units of measurement (Q5)	349a, 349b, 348c	M772 M530 M761				
39	Calculate with money, units of measurement and time (Q3,4,6&9)	347, 348a, 348b 348c, 349a, 349b 349c	M627 M772 M530 M761				

	Topic 13: Angles in parallel lines and polygons			Summer Term					
40	Identify alternate, corresponding and co-interior angles (Q1-3)	25	M606						
41	Work with Interior & Exterior angles in polygons (Q4,7&8)	32-33	M653						
42	Construct triangles and bisectors (Q5&9)	72, 81	M565 M232 M239						
	Topic 14: Area of trapezia and circles								
43	Recall area of basic 2D shapes (Q1&2)	41a, 45,49	M390 M610 M291						
44	Find the area of a trapezium shapes (Q3&5)	48	M705						
45	Find the area of a circle (Q4&6)	40	M231						
46	Find the area of compound shapes (Q7)	41	M269 M996						
	Topic 15: Line symmetry and reflection								
47	Recognise line symmetry (Q1&2)	316, 317	M523						
48	Reflect in a horizontal, vertical and diagonal line (Q3-6)	272-274	M290						
	Topic 16: The data handling cycle								
49	Interpret Pictograms (Q1)	162	M644						
50	Draw and interpret multiple bar charts (Q2)	147, 148, 148a, 148b	M738						
51	Interpret pie charts (Q3)	164	M165						
52	Design and criticise questionnaires (Q4)	268	M493						
53	Interpret line graphs & the range (Q5)	160	M140						
	Topic 17: Measures of location								
54	Understand and use averages mean, median, mode and range with raw data (Q1&2)	50, 53, 56, 57	M940 M934 M841 M328						
55	Calculate averages with frequency and grouped frequency tables (Q3)	51, 52, 54, 55, 57	M127 M287						
56	Compare distributions using averages and range (Q4)		M440						