

PERSONALISED LEARNING CHECKLIST

Year 7 – White Rose Maths

CM Link

Sparx
link

Red

Amber

Green

Revised
(Tick)

Areas of Study:

Topic 1: Sequences

1	Describe and continue linear sequences (Q1-4,8&10)	CM286	M381				
2	Describe and continue non-linear sequences (Q5-7&9)	CM287	M418				

Topic 2: Algebraic Notation and Substitution

3	Substitute into function machines and algebraic expressions (Q1,2,4,5,7&8)	CM386	M327				
4	Use inverse operations (Q1,3,5&6)		M521				

Topic 3: Expressions and Equations

5	Understand like and unlike terms (Q1,4,6&7)	CM9	M795				
6	Fact families (Q2)		M952				
7	Form and solve linear equations (Q3,5&8)	CM110	M707				

Topic 4: Place Value, Ordering and Rounding

8	Understand place value and the number system including decimals, integers and measures. (Q1,2&5)	CM221	M704 M522				
9	Order/compare number using the symbols $=, \neq, \leq, \geq$ and use a number line for positive and negative integers, fractions and decimals (Q3,4&7)	CM208 CM222	M527				
10	Round numbers to an appropriate accuracy (Q6)	CM276- CM280	M111 M431				
11	Order standard form numbers (Q8)	CM300	M719				

Topic 5: Four Operations

12	Multiply and divide by powers of 10 (Q1)	CM203 CM100	M113				
13	Add, subtract, multiply and divide with Integers (Q2-6)	CM6 CM304 CM199 CM93	M928 M347 M288				
14	Order of operations (Q7)	CM211	M521				
15	Multiply and divide with decimals (Q8-10)	CM94 CM92	M803 M491				

Topic 6: Averages and Range							
16	Calculate averages and range from a list of numbers (Q1-4,6&8)	CM57 CM395 CM50 CM53	M328 M940				
17	Calculate averages from a frequency table (Q5&7)	CM56a CM57a CM54	M127				
18	Reverse mean problems (Q9)		M440				
Topic 7: Rounding and Estimation							
19	Significant figure rounding (Q1-4&7)	CM279a	M994 M131				
20	Estimation using significant figure rounding (Q5&6)	CM215	M878				
21	Error intervals (Q8)	CM377	M730				
Topic 8: Graphing Data							
22	Interpreting pictograms (Q1)	CM162	M644				
23	Interpreting bar charts (Q2)	CM147	M738				
24	Scatter graphs (Q3)	CM165	M596				
25	Time-series line graphs (Q4)	CM382	M140 M183				
Topic 9: Fractions, Decimals and Percentages							
26	Equivalent fractions (Q1&2)	CM135	M410				
27	Convert fluently between fractions, decimals & percentages (Q3-10)	CM129	M264				
Topic 10: Directed Number							
28	Add/Subtract/ Multiply/Divide/order and use BIDMAS with directed numbers (Q1-8)	CM211	M106 M288				
Topic 11: Fractions and Percentages of Amounts							
29	Fractions of amounts (Q1)	CM137	M695				
30	Percentages of amounts without a calculator (Q2)	CM234	M437				
31	Percentages of amounts with a calculator (Q3)	CM235	M905				
32	Use a given fraction to find an original amount- reverse fractions of amounts (Q4&5)	CM240	M528				
33	Percentage problems- Increase/decrease, reverse percentages and percentages greater than 100% (Q6-9)	CM238	M476 M533				

Topic 12: Perimeter and Area							
34	Calculate the perimeter of 2D shapes (Q1&2)	CM241	M635 M690				
35	Area of a square, rectangle, parallelogram, triangle and trapezium (Q3-7)	CM44-45 CM48-49	M390 M610 M705				
Topic 13: Speed, Distance and Time							
36	Time conversions- interchange between hours, minutes and seconds (Q1-5)	CM322	M515				
37	Train timetable problems (Q6)	CM320	M963				
38	Interpret and solve calendar problems (Q7)		M747				
39	Use the speed formula to solve speed, distance and time problems (Q8-10)	CM299	M627				
40	Interpret and draw time distance graphs (Q11)	CM171	M551 M581				
Topic 14: Properties of Number							
41	Identify multiples and factors of numbers (including HCF/LCM) and expressions (Q1-3,8&9)	CM219	M823 M227 M698				
42	Recognise and identify square and triangular numbers (Q4)	CM226 CM229	M135				
43	Calculations with roots and powers (Q5-6&10)	CM228	M135				
44	Express a number as a product of its prime factors (Q7)	CM223	M108				
Topic 15: Add and Subtract Fractions							
45	Simplify fractions (Q1)	CM146	M671				
46	Convert between mixed numbers and fractions (Q2,3)	CM129	M601				
47	Add/subtract fractions i) Add/ Subtract fractions (same denominator) ii) Add/ Subtract fractions from integers iii) Add/subtract improper fractions and mixed number (Q4-10)	CM132 CM133	M835 M931				
48	Use fractions in algebraic contexts (Q11)	CM25	M568				
Topic 16: Angles and Polygons							
49	Draw and measure line segments and angles (Q1)	CM397	M780				
50	Use letter and labelling conventions (Q2)		M814				
51	Understand/use the sum of angles.... i) at a point ii) on a straight line iii) in a triangle iv) in a quadrilateral (Q3,4b,6&7)	CM30 CM33 CM35 CM37	M818 M351 M679				
52	Identify parallel and perpendicular lines (Q4a)	CM231 CM232	M814				
53	Identify names of polygons (Q5)	CM32	M653				
54	Calculate interior/exterior angles with polygons (Q8)	CM32	M653				
55	Calculate with angles in parallel lines (Q9)	CM25	M606				

