

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 both linear and non-linear sequences (Q1-8)	286 290	M381				
2	Find missing terms in a linear sequence (Q9-11)	287	M166				

Topic 2: Understand and use Algebraic Notation

3	Use inverse operations and 'operation families' (Q3)	386					
4	Substitute into one and two- step function machines (Q1&10)	386	M175				
5	Find functions and form sequences from expressions (Q4,5,6&11)	16	M428				
6	Represent functions graphically (Q9)						

Topic 3: Equality and Equivalence

7	Form and solve linear equations (Q3,4&5)	110	M707				
8	Understand like and unlike terms (Q6&7)	9	M531				
9	Simplify algebraic expressions (Q8&9)	9	M531				

Topic 4: Place Value and Ordering Integers and Decimals

10	Understand place value and the number system including decimals, integers and measures. (Q1&6)	222	M704 M522				
11	Order number using the symbols =, ≠, ≤, ≥ and use a number line for positive and negative integers, fractions and decimals (Q2&5)	221					
12	Round numbers to an appropriate accuracy (Q4)	276- 279a	M111 M431				
13	Describe, interpret and compare data using the median and range (Q3&7)	50,51 57 57a	M328 M934				

Topic 5: FDP Equivalence

14	Convert fluently between fractions, decimals & percentages (All questions)	121- 128	M264				
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Topic 6: Solving Problems with Addition and Subtraction

15	Use mental and formal methods of addition/ subtraction for integers and decimals in a variety of contexts including.... (All Questions) i) Standard Form (Q11) ii) Perimeter (5&8) iii) Finance (Q4) ii) Tables and Timetables (Q7) iii) Frequency Trees (Q6) iv) bar charts v) line charts	6, 304 90, 91 300 301 241 319 320 376 147 148 160	M719 M635 M738 M183				
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Topic 7: Solving Problems with Multiplication and Division							
16	Understand and use factors, multiples and BIDMAS (Q2,5,9,10)	211 216 219 218 220	M521 M823				
17	Use formal methods to multiply/divide integers and decimals (Q1,3,4,7,8)	93, 98 99 199 200 202 204 349ab c	M911 M803 M354 M491				
18	Solve problems involving area and the mean (Q6,11)	44, 45, 48, 49, 53	M390 M940				
Topic 8: Fractions and Percentages of Amounts							
19	Use a given fraction to find an amount, the whole or other fractions (Q1,3,5,6,7)	137	M695				
20	Find the percentage of an amount using mental methods and a calculator (Q2,4,5,6,7)	234 235	M437 M905				
Topic 9: Directed Number							
21	Add/Subtract/ Multiply/Divide/order and use BIDMAS with directed numbers (Q1,2,3,4,5,8,9)	205 206 207 211	M521				
22	Evaluate algebraic expressions (Q6,10)						
23	Solve two- step equations (Q7)	110 113	M634				
Topic 10: Fractional Thinking							
24	Convert between mixed numbers and fractions (Q5,6)	139 140	M601				
25	Add/subtract any fractions..... (Q10) i) unit fractions (same denominator) ii) Add/ Subtract fractions (same denominator) (Q4) iii) Add/ Subtract fractions from integers (Q3,9) iv)Add/subtract improper fractions and mixed numbers (Q3,5,7,11)	133 145	M835 M835				
		132 145					
		139 140	M931				
26	Use equivalent fractions and decimals (Q1,2,9)	135	M410				
27	Use fractions in algebraic contexts (Q12)	21,22 23	M336				
Topic 11: Constructing, Measuring and using Geometric Notation							
28	Use letter and labelling conventions (Q3,4,5,6)						
29	Draw and measure line segments and angles (Q1,2,7,8)	397 397a					
30	Identify parallel and perpendicular lines (Q4)	231 232	M814				
31	Recognise and identify types of triangles, quadrilaterals and polygons (Q5,6)	1,2	M276				
32	Construct triangles (SAS, SSS, ASA) (Q7,8)	73,81, 82, 83	M565				
33	Draw pie charts (Q9)	163	M574				

Topic 12: Developing Geometric Reasoning

34	Understand/use the sum of angles....					
	i) at a point (Q3)	20	M818			
	ii) on a straight line (Q1,7)	35	M818			
	iii) in a triangle (Q2,4,8)	37	M351			
	iv) in a quadrilateral (Q7)	33	M679			
35	Understand/use equality of vertically opposite angles (Q5,8)	39	M163			

Topic 13: Developing Number Sense

36	Know and use mental addition/subtraction/multiplication/division, including decimals and fractions (Q1,2,3,4,5,6,7)	6, 304 199 200 98 98a, 90,91 132	M928 M347 M187 M354			
37	Use estimation to check mental calculations (Q4a)	215	M878			
38	Use number and algebraic facts (Q8)	19				

Topic 14: Sets and Probability

39	Identify and represent sets (Q2)	379	M834			
40	Interpret and create Venn diagrams, understanding and using the intersection and union of sets (Q3,5)	379 380	M384			
41	Calculate the probability of a single event (Q1,4,6)	245	M941			
42	Understand and use the probability scale (Q7)	251				

Topic 15: Prime Numbers and Proof

43	Identify multiples and factors of numbers (including HCF/LCM) and expressions (Q1,4,5,8)	218,2 19, 220	M227 M698			
44	Recognise and identify prime, square and triangular numbers (Q2,3,6)	225, 226 229	M322 M135			
45	Express a number as a product of its prime factors (Q7)	223	M108			