Tables for determining National Curriculum Levels from MEP Year 7 Diagnostic Test results (Academic)

Diagnostic Test A

Below Level 4 :	Level 4 :	Level 5 :
Mark < 21	21 ≤ Mark < 40	Mark ≥ 40

Diagnostic Test B

Below Level 4 :	Level 4 :	Level 5 :
Mark < 13	13 ≤ Mark < 36	Mark ≥ 36

Diagnostic Test C

Level 4 :	Level 5 :
16 ≤ Mark < 38	Mark ≥ 38

Diagnostic Test D

Level 4:	Level 5 :
14 ≤ Mark < 36	Mark ≥ 36

Diagnostic Test E

Level 4 :	Level 5 :
12 ≤ Mark < 36	Mark ≥ 36

Diagnostic Test F

Level 4 :	Level 5 :	Level 6 :
18 ≤ Mark < 61	61 ≤ Mark < 86	Mark ≥ 86

The remainder of this document details the National Curriculum attainment target and level for each question in each of the Year 7 Diagnostic Tests (Academic Route).

Year 7   Diagnostic Test A   Summary of Levels

Below Level 4 : Mark < 21	Level 4 : 21 ≤ Mark < 40	Level 5 : Mark ≥ 40

Chapter	Number	Question	Attainment Target	Level
1.1	1	Completing Logic Puzzles	-	-
1.3	2	Sets and Venn Diagrams to sort information	4	4
2.1	3	Writing whole numbers to the nearest 10 and 100	2	3
2.1	4	What is the value of the digit in	2	3
2.1	5	Writing numbers to 1 or 2 decimal places	2	5
2.2	6	Ordering numbers and decimals	2	4
2.1	7	Writing the smallest number which will round up to …	2	4
2.1	8	Using an inequality sign	2	4
3.1	9	Reading information from a scatter graph	4	5
3.4	10	Plotting points in 4 quadrants	3	5
4.1	11	Adding and subtracting whole numbers	2	3
4.2	12	Solving problems in context	2	4
4.1	13	Adding and Subtracting Decimals	2	4
4.2	14	Solving money problems in context	2	4
5.1	15	Using a compass	3	3
5.2	16	Measuring angles with a protractor	3	5
5.1	17	Writing turns in terms of angles	3	4
5.1	18	Angles and compass directions	3	4
5.4 5.5	19	Calculating angles on lines, around points and in triangles	3	5

Attainment Target	Questions	Levels
Number & Algebra 2	3,4,5,6,7,8,11,12,13,14	3,3,5,4,4,4,3,4,4,4
Shape, Space and Measure 3	10,15,16,17,18,19	5,3,5,4,4,5
Statistics 4	2,9	4,5
Non NC material	1	N/A

Year 7   Diagnostic Test B   Summary of Levels

Below Level 4 : Mark < 13	Level 4 : 13 ≤ Mark < 36	Level 5 : Mark ≥ 36

Chapter	Number	Question	Attainment Target	Level
3.4	1	Plotting points in 4 quadrants	3	5
5.1	2	Using a compass	3	4
5.4 5.5	3	Calculating angles on lines, around points and in triangles	3	5
6.2	4	Multiplying whole numbers and decimals by 10,100	2	4
6.4	5	Solving time/distance problems involving multiplication	2	4
6.3	6	Multiplying whole numbers and decimals	2	5
6.4	7	Solving money problems involving multiplication	2	4
7.2	8	Finding the next two numbers in a number sequence	2	4
7.3	9	Finding the output with a number machine	2	4
7.4	10	Using the nth term to generate the first 4 terms of a sequence	2	5
7.4	10	Finding the nth term of a sequence	2	6
8.1	11	Putting brackets into a statement to make it true	2	5
8.2	12	Dividing using short division	2	5
8.3	13,14	Solving division problems in context	2	4/5
9.2	15	Finding the area and perimeter of squares and rectangles	3	5
9.5	16	Finding the area of a triangle	3	6
9.3	17	Converting from one metric unit to another	2	5

Attainment Target	Questions	Levels
Number & Algebra 2	4,5,6,7,8,9,10,11,12,13,14,17	4,4,5,4,4,4,5/6,5,5,4,5,5
Shape, Space & Measure 3	1,2,3,15,16	5,4,5,5,5
Statistics 4		

Year 7   Diagnostic Test C   Summary of Levels

Level 4 :	Level 5 :
16 ≤ Mark < 38	Mark ≥ 38

Chapter	Number	Question	Attainment Target	Level
10.1	1	Finding the fraction of the shape shaded	2	4
10.1	2	Shading a fraction of a shape	2	4
10.1	3	Finding the fraction remaining	2	4
10.2	4	Writing one fraction equivalent to another	2	4
10.3	5	Finding a fraction of an amount	2	5
10.3	6,7	Finding a fraction of an amount	2	5
10.4	8	Changing an improper fraction to a mixed number and back	2	5
3.3	9	Working with inequality signs	2	4
11.1	10	Distinguishing between Qualitative and Quantitative data	4	5
11.2	11	Completing a frequency tally chart and graph	4	3/4/6
12.1	12	Calculations involving the 4 operations	2	3/4/5
12.2	13	Division problems in context	2	4
12.2	14	Subtraction problem in context	2	5
12.2	15	Division problems in context	2	4
3.4	16	Plotting co-ordinates in 4 quadrants	3	5
5.4/5.6	17	Finding the missing angles around points and in triangles	3	5
13.2	18	Finding the next two terms in a linear sequence	2	4
9.4	19	Calculating the area and perimeter of compound shapes	3	5
9.2	20	Metric Conversion	3	5

Attainment Target	Questions	Levels
Number & Algebra 2	1,2,3,4,5,6,7,8,9,12,13,14,15,18	4,4,4,4,5,5,5,5,4,3/4/5,4,5,4,4
Shape, Space & Measure 3	16,17,19,20	5,5,5,5
Statistics 4	10,11	5,3/4/6

Year 7   Diagnostic Test D   Summary of Levels

Level 4:	Level 5 :
14 ≤ Mark < 36	Mark ≥ 36

Chapter	Number	Question	Attainment Target	Level
13.1	1	Drawing the next two shapes in a pattern	2	4
13.2	2	Finding the 5th, 6th and 10th triangular number	2	4
13.2	3	Finding the next 2 terms in a sequence	2	5
14.1	4	Writing clock times in digits and words	3	3
14.2	5	Writing times in the 24 hour clock	3	3
14.2	6	Converting 24 hour clock to 12 hour clock	3	3
14.4	7	Reading and interpreting a train timetable	3	3
15.1/15.2	8	The four operations with positive and negative numbers	2	5
16.1	9	Filling missing numbers in calculations	2	5
13.2	10	Finding the next 2 terms in a sequence	2	5
16.1	11	Substituting positive and negative numbers into an algebraic expression	2	5
16.1	12	Simplifying algebraic expressions	2	5
7.3	13	Finding the input and output of a function machine	2	4/5
16.3	14	Solving equations	2	6
10.3	15	Finding fractions of amounts	2	5
10.3	16	Finding the fraction remaining	2	5
8.2	17	Calculations with decimals	2	5
12.2	18	Solving money problems	2	5
9.4	19	Calculating the area and perimeter of a compound shape	3	5

Attainment Target	Questions	Levels
Number & Algebra 2	1,2,3,8,9,10,11,12,13,14,15,16,17,18	4,4,5,5,5,5,5,5,4/5,6,5,5,5,5
Shape, Space & Measure 3	4,5,6,7,19	3,3,3,3,5
Statistics 4		

Level 4 :	Level 5 :
12 ≤ Mark < 36	Mark ≥ 36

Chapter	Number	Question	Attainment Target	Level
17.2	1	Finding the % shaded on a square	3	4
17.1	2	Converting decimals to fractions	2	5
17.1	3	Writing a fraction as a decimal	2	5
17.3	4	Writing a percentage as a fraction	2	5
17.2	5	Finding a percentage of an amount	2	5
18.2	6	Calculating measures of central tendency and spread	4	5
18.1	7	Completing a frequency tally chart and turning it into a vertical line graph	4	4
2.1	8	Calculating the upper and lower bounds	2	4
19.2	9	Finding the actual area from a scale drawing	3	5
19.1	10	Using map scales	3	5
4.1	11	Calculations involving decimals	2	5
20.2	12	The four operations with fractions	2	5
10.3	13	Finding the fraction remaining	2	4
7.2	14	Finding the next two terms in a sequence	2	5
14.2	15	Writing times in 24 hour clock	3	3
14.2	16	Writing times in 12 hour clock	3	3
16.1	17	Substitution into an algebraic expression	2	5
16.1	18	Simplifying expressions	2	5
16.3	19	Solving equations with x on one side	2	6
10.3	20	Finding the fraction remaining	2	4

Attainment Target	Questions	Levels
Number 2	2,3,4,5,8,11,12,13,14,17,18,19,20	5,5,5,5,4,5,5,4,5,5,5,6,4
Shape 3	1,9,10,15,16	4,5,5,3,3
Handling Data 4	6,7	5,4

Year 7   Diagnostic Test F   Summary of Levels

Level 4 :	Level 5 :	Level 6 :
18 ≤ Mark < 61	61 ≤ Mark < 86	Mark ≥ 86

Chapter	Number	Question	Attainment Target	Level
21.1	1	Describing the probability of an event	4	4
21.1	2	Marking an event on a probability scale	4	5
21.2	3	The probability of "not"	4	6
21.3	4	Determining the expected frequency	4	5
22.2	5	Calculating the volume of a cube	3	6
22.4	6	Calculating the volume of a prism	3	6
2.2	7	Writing decimals to 1 and 2 decimal places	2	5
3.4	8	Plotting co-ordinates in 4 quadrants	3	5
5.5	9	Constructing triangles	3	5
12.1	10	Addition and subtraction with whole numbers and decimals	2	3/4
8.1	11	Multiplying decimals by 10,100,1000	2	3/5
7.2	12	Finding the next two terms in a sequence	2	4/5
8.3	13	Division with decimals	2	4/5
12.2	14	Money problems	2	5
9.4	15	Calculating the area and perimeter of a compound shape	3	5
9.3	16	Metric conversions	3	5
10.1	17	Finding the fraction, % decimal of a shaded shape	2	4
10.1	18	Shading a fraction of a shape	3	4
10.2	19	Writing equivalent fractions	2	5
10.3	20	Finding fractions of amounts	2	5
11.2	21	Drawing a frequency tally chart and vertical line graph	4	3/4/6
13.1	22	Drawing the next shape in a sequence and writing a rule for the nth shape	2	5/7
14.2	23	Changing 12 to 24 hour clock	3	3
14.2	24	Changing 24 to 12 hour clock	3	3
15.1	25	Calculations with positive and negative numbers	2	5/6
16.1	26	Substitution into a formula	2	5
16.1	27	Simplifying algebraic expressions	2	5
16.3	28	Solving equations with x on one side	2	5/6
17.1	29	Converting decimals to fractions	2	5
17.3	30	Writing a % as a fraction in its simplest form	2	5
17.2	31	Calculating % of amounts	2	5
18.2	32	Calculating measures of central tendency and spread	4	5
19.2	33	Working with Map Scales	3	5
20.2/20.3	34	Calculations with fractions	2	5

Attainment Target	Questions	Levels
Number & Algebra 2	7,10,11,12,13,14,17,19,20,22,25,26,27,28, 29,30,31,34,	5,3/4,3/5,4/5,4/5,5,4,5,5,5/7,5/6,5,5, 5/6,5,5,5,5
Shape, Space & Measure 3	5,6,8,9,15,16,18,23,24,33	5,6,5,5,5,5,4,3,3,5
Statistics 4	1,2,3,4,21,32	4,5,6,5,3/4/6,5