Tables for determining National Curriculum Levels from MEP Year 9 Diagnostic Test Results (Academic)

Diagnostic Test A

Level 5:	Level 6 :	Level 7:
$15 \le Mark < 30$	$30 \le Mark < 41$	Mark ≥ 41

Diagnostic Test B

Level 5 :	Level 6:	Level 7:
$11 \le Mark < 30$	$30 \le Mark < 42$	$Mark \ge 42$

Diagnostic Test C

Level 5 :	Level 6:
$23 \leq Mark < 38$	Mark ≥ 38

Diagnostic Test D

Below Level 6 :	Level 6 :	Level 7:
Mark < 25	$25 \le Mark < 42$	Mark ≥ 42

Diagnostic Test E

Level 6:	Level 7:
$20 \le Mark < 40$	Mark ≥ 40

Diagnostic Test F

Level 6:	Level 7 :	Level 8:
$18 \le Mark < 32$	$32 \le Mark < 43$	Mark ≥ 43

The remainder of this document details the National Curriculum attainment target and level for each question in each of the Year 9 Diagnostic Tests (Academic Route).

Year 9 Diagnostic Test A Summary of Levels

Level 5 :	Level 6:	Level 7:
$15 \le Mark < 30$	$30 \le Mark < 41$	$Mark \ge 41$

Chapter	Question Number	Question	Attainment Target	Level
1.1	1	Converting binary numbers to base 10	-	-
1.1	2	Converting base 10 numbers to binary	-	-
1.3	3	Binary multiplication	-	-
2.3	4	Interchanging numbers and operations in calculations	2	4
2.3	5	Multiplying by 10 and 100	2	5
2.4	6	Proportion problems	2	4
2.4	7	Long multiplication and unitary problems	2	5
2.4	8	Long multiplication and unitary problems	2	5
3.1	9	Calculating with powers	2	7
3.2	10	Working with positive powers	2	7
3.3	11	Working with negative powers	2	7

Attainment Target	Question	Level
Number & Algebra (2)	4,5,6,7,8,9,10,11	4,5,4,5,5,7,7,7
Shape, Space & Measure (3)		
Statistics (4)		
Non NC material	1,2,3	

Year 9 Diagnostic Test B Summary of Levels

Level 5 :	Level 6:	Level 7:
$11 \le Mark < 30$	$30 \le Mark < 42$	$Mark \ge 42$

Chapter	Number	Question	Attainment Target	Level
2.4	1	Areas of rectangles	2/3	5
3.2	2	Working with powers	2	7
3.4	3	Working with standard form	2	8
4.3	4	Adding fractions	2	5
4.2	5	Finding a fraction of an amount	2	5
4.4	6	Identifying fractions and percentages on a line	2	5
4.5	7	% and ratio problems	2	6
5.1	8	Co-ordinates and scale factors of enlargement	2/3	4/6
5.2	9	Drawing straight line graphs	3	6
5.3	10	Solving equations	2	6
5.4	11	Properties of equations of lines	3	6
6.3	12	Probability of two events (Spinners)	4	6
6.3	13	Probability of two events (Number cards)	4	6
6.3	14	Probability problems "and" "or"	4	8

Attainment Target	Question	Level
Number (2)	1,2,3,4,5,6,7,8,10	5,7,8,5,5,5,6,4,6
Shape and Space (3)	1,8,9,11	5,6,6,6
Handling Data (4)	12,13,14	6,6,8

Year 9 Diagnostic Test C Summary of Levels

Level 5 :	Level 6:
23 ≤ Mark < 38	Mark ≥ 38

Chapter	Number	Question	Attainment	Level
			Target	
	1	Conversion graphs	2	5
	2	Conversion graphs and substitution of values into a	2	5
		formula		
6.3	3	Probability of two events	4	6
		"or"		
4.5	4	Calculating ratios percentages and probabilities from a two	2/4	6
		way table		
7.4	5	Lines of symmetry	3	4
7.6	6	Tessellations, lines of symmetry and rotational symmetry	3	5
7.4	7	Lines of symmetry	3	5
8.1	8	Reading and interpreting information from a table	4	5
8.1	9	Calculating a unitary amount from population and area data	2	6
		displayed in a table		
8.1	10	Reading information from pie charts	4	5
16.1	11	Reading information from a cumulative frequency curve	4	8
		(Median)		

Attainment Target	Question	Level
Number & Algebra (2)	1,2,4,9	5,5,6,6
Shape, Space & Measure (3)	5,6,7	4,5,5
Statistics (4)	3,8,10,11	6,5,5,8

Year 9 Diagnostic Test D Summary of Levels

Below Level 6 :	Level 6 :	Level 7:
Mark < 25	$25 \le Mark < 42$	$Mark \ge 42$

Chapter	Number	Question	Attainment	Level
			Target	
8.4	1	Converting from one currency to another	2	5
6.1	2	Simple probability problems	4	6
9.1/11.2	3	Area and perimeter of a rectangle (Number/algebra qns)	3	5/6
9.2	4	Finding the area and circumference of a circle	3	6
10.2	5	Finding the nth shape in a sequence	3	5/6
10.1	6	Finding the nth term / using a rule to generate a sequence	2	6
10.3	7	Finding the nth term in a non-linear sequence	2	7
13.2	8	Working with squares, square roots and reciprocals	2	7
11.1	9	Substitution and simplification of formulae	2	7
11.2	10	Adding algebraic fractions	2	7
12.3	11	Constructing triangle/marking locus of points outside tri	3	6/7

Attainment Target	Question	Level
Number & Algebra (2)	1,6,7,8,9,10	5,6,7,7,7,7
Shape, Space & Measure (3)	3,4,5,11	5/6,6,5/6,6/7
Statistics (4)	2	6

Year 9 Diagnostic Test E Summary of Levels

Level 6 :	Level 7 :
$20 \le Mark < 40$	Mark ≥ 40

Chapter	Number	Question	Attainment	Level
			Target	
8.1	1	Interpreting a population pie chart	4	6
9.1	2	Finding the area and perimeter of a rectangle	2	6
9.1/11.2	3	Area and perimeter of rectangles with algebraic dimensions	2	6
9.2	4	Finding the area of a circle given its circumference	3	6
10.3	5	Finding the nth shape in a non-linear sequence	3	7
13.1	6	Solving inequalities	2	7
9.1/13.1	7	Writing an expression for the perimeter of a triangle and	2	7
		solving an inequality		
13.4	8	Drawing a cubic graph	3	7
14.4	9	Rounding: finding the maximum and minimum amounts	2	6/7

Attainment Target	Question	Level
Number & Algebra (2)	2,3,6,7,9	6,6,7,7,6/7
Shape, Space & Measure (3)	4,5,8	6,7,7
Statistics (4)	1	6

Year 9 Diagnostic Test F Summary of Levels

Level 6:	Level 7 :	Level 8:
$18 \le Mark < 32$	$32 \le Mark < 43$	$Mark \ge 43$

Chapter	Number	Question	Attainment	Level
			Target	
9.2	1	Calculating the area of triangles, quadrilaterals and circles	3	6
10.1	2	Finding the nth shape in the sequence	2	6
15.1	3	Calculating the perimeter of a trapezium (Pythagoras)	3	7
15.3	4	Finding the missing side length using trigonometry	3	7
15.4	5	Finding the missing angle using trigonometry	3	8
16.1	6	Drawing a vertical line graph and calculating the mode,	4	5
		mean and range		
17.1	7	Drawing a quadratic curve and a line given their equations	2	7/EP

Attainment Target	Question	Level
Number & Algebra (2)	2,7	6,7/EP
Shape, Space & Measure (3)	1,3,4,5	6,7,7,8
Statistics (4)	6	5