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

## Diagnostic Test A

| Level 5 : $15 \leq \text { Mark }<30$ | Level 6 : $30 \leq \text { Mark }<41$ | Level 7 : <br> Mark $\geq 41$ |
| :---: | :---: | :---: |
| Diagnostic Test B |  |  |
| Level 5 : $11 \leq \text { Mark }<30$ | Level 6 : $30 \leq \text { Mark }<42$ | Level 7 : $\text { Mark } \geq 42$ |

Diagnostic Test C

| Level 5: | Level 6: |
| :--- | :--- |
| $23 \leq$ Mark $<38$ | Mark $\geq 38$ |

## Diagnostic Test D

| Below Level 6: | Level 6: | Level 7 : |
| :--- | :--- | :--- |
| Mark $<25$ | $25 \leq$ Mark < 42 | Mark $\geq 42$ |

## Diagnostic Test E

| Level 6: | Level 7: |
| :--- | :--- |
| $20 \leq$ Mark $<40$ | Mark $\geq 40$ |

## Diagnostic Test F

| Level 6: | Level 7 : | Level 8 : |
| :--- | :--- | :--- |
| $18 \leq$ Mark $<32$ | $32 \leq$ Mark $<43$ | Mark $\geq 43$ |

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).

| Level 5: | Level 6: | Level 7 : |
| :--- | :--- | :--- |
| $15 \leq$ Mark $<30$ | $30 \leq$ Mark <41 | Mark $\geq 41$ |


| Chapter | Question <br> Number | Question | Attainment <br> 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 | $1,2,3$ |  |


| Level 5: | Level 6 : | Level 7 : |
| :--- | :--- | :--- |
| $11 \leq$ Mark $<30$ | $30 \leq$ Mark $<42$ | Mark $\geq 42$ |


| Chapter | Number | Question | Attainment <br> 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) | $12,13,14$ | $6,6,8$ |


| Level 5: | Level 6 : |
| :--- | :--- |
| $23 \leq$ Mark $<38$ | Mark $\geq 38$ |


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


| 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) | $3,8,10,11$ | $6,5,5,8$ |


| Below Level 6: | Level 6: | Level 7 : |
| :--- | :--- | :--- |
| Mark $<25$ | $25 \leq$ Mark $<42$ | Mark $\geq 42$ |


| Chapter | Number | Question | Attainment <br> Target | Level |
| :---: | :---: | :--- | :---: | :---: |
| 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 |


| Level 6 :$20 \leq \text { Mark }<40$ |  |  | Level 7 : <br> Mark $\geq 40$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Chapter | Number | Question | Attainment Target | Level |
| 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 solving an inequality | 2 | 7 |
| 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 |


| Level 6: | Level 7: | Level 8 : |
| :--- | :--- | :--- |
| $18 \leq$ Mark $<32$ | $32 \leq$ Mark $<43$ | Mark $\geq 43$ |


| Chapter | Number | Question | Attainment <br> Target | Level |
| :---: | :---: | :--- | :---: | :---: |
| 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, <br> mean and range | 4 | 5 |
| 17.1 | 7 | Drawing a quadratic curve and a line given their equations | 2 | $7 / \mathrm{EP}$ |


| Attainment Target | Question | Level |
| :--- | :--- | :--- |
| Number \& Algebra (2) | 2,7 | $6,7 / \mathrm{EP}$ |
| Shape, Space \& Measure (3) | $1,3,4,5$ | $6,7,7,8$ |
| Statistics (4) | 6 | 5 |

