

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

Diagnostic Test A

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| Level 5 : $17 \leq \text{Mark} < 30$ | Level 6 : $30 \leq \text{Mark} < 41$ | Level 7 : $\text{Mark} \geq 41$ |
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Diagnostic Test B

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| Level 4 : $15 \leq \text{Mark} < 31$ | Level 5 : $31 \leq \text{Mark} < 43$ | Level 6 : $\text{Mark} \geq 43$ |
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Diagnostic Test C

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| Below Level 5 : $\text{Mark} < 38$ | Level 5 : $\text{Mark} \geq 38$ |
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Diagnostic Test D

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| Level 5 : $18 \leq \text{Mark} < 40$ | Level 6 : $\text{Mark} \geq 40$ |
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Diagnostic Test E

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| Level 6 : $25 \leq \text{Mark} < 42$ | Level 7 : $\text{Mark} \geq 42$ |
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Diagnostic Test F

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| Level 6 : $24 \leq \text{Mark} < 41$ | Level 7 : $\text{Mark} \geq 41$ |
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The remainder of this document details the National Curriculum attainment target and level for each question in each of the Year 9 Diagnostic Tests (Standard Route).

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| Level 5 : 17 ≤ Mark < 30 | Level 6 : 30 ≤ Mark < 41 | Level 7 : Mark ≥ 41 |
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| Chapter | Number | Question | Attainment Target | Level |
|---------|--------|---|-------------------|-------|
| 1.1 | 1 | Converting binary number to base 10 | - | - |
| 1.1 | 2 | Converting a base 10 number to binary | - | - |
| 2.2/2.3 | 3 | Four rules of number | 2 | 4 |
| 2.1 | 4 | Place value | 2 | 4 |
| 2.3 | 5 | Multiplying whole numbers by 10 and 100 | 2 | 5 |
| 2.3 | 6 | Multiplying decimals by 10 and 100 | 2 | 5 |
| 2.4 | 7 | Problems involving weight and money | 2 | 4 |
| 2.4 | 8 | Problem solving using multiplication and division | 2 | 5 |
| 3.1 | 9 | Working with positive indices | 2 | 6 |
| 3.2 | 10 | Working with the laws of indices | 2 | 7 |
| 3.1 | 11 | Working with positive indices | 2 | 6 |

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

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| Level 4 : 15 ≤ Mark < 31 | Level 5 : 31 ≤ Mark < 43 | Level 6 : Mark ≥ 43 |
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| Chapter | Number | Question | Attainment Target | Level |
|---------|--------|---|-------------------|-------|
| 2.1 | 1 | Using place value | 2 | 4 |
| 2.4 | 2 | Problem solving in context using four rules of number | 2 | 4 |
| 3.1 | 3 | Fractions of shapes | 2 | 4 |
| 4.3 | 4 | Addition of fractions | 2 | 5 |
| 4.2 | 5 | Fractions of quantities | 2 | 5 |
| 4.4 | 6 | Converting decimals to fractions | 2 | 5 |
| 4.5 | 7 | Percentages of quantities | 2 | 5 |
| 4.3/4.4 | 8 | Meaning of fractions; equivalence and percentages | 2 | 5 |
| 5.1 | 9 | Co-ordinates and area | 2/3 | 4/6 |
| 5.2 | 10 | Straight line graph | 3 | 6 |
| 5.3 | 11 | Solving linear equations | 2 | 6 |
| 6.1 | 12 | Probability scales | 2 | 5 |
| 6.1 | 13 | Estimating probabilities | 2 | 5 |

| Attainment Target | Question | Level |
|---------------------------|---------------------------------------|-----------------------|
| Number & Algebra (2) | 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13 | 4,4,4,5,5,5,5,4,6,5,5 |
| Shape, Space & Measure(3) | 9, 10 | 6,6 |
| Statistics (4) | | |

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| Below Level 5 : Mark < 38 | Level 5 : Mark ≥ 38 |
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| Chapter | Number | Question | Attainment Target | Level |
|---------|--------|--|-------------------|-------|
| 8.1 | 1 | Extraction/presentation of information in 2 way tables | 4 | 4 |
| 8.1 | 2 | Reading values from a straight line graph | 2 | 5 |
| 2.2 | 3 | Addition of positive and negative numbers | 2 | 5 |
| 6.2 | 4 | Probability of a single event | 4 | 5 |
| 7.4 | 5 | Drawing lines of symmetry on shapes | 3 | 5 |
| 7.4 | 6 | Drawing shapes with lines and order of symmetry | 3 | 5 |
| 7.4 | 7 | Drawing lines of symmetry on patterns | 3 | 5 |
| 8.1 | 8 | Interpreting pie charts | 4 | 5 |
| 8.1 | 9 | Reading mileage charts | 4 | 5 |
| 8.1 | 10 | Reading pictograms | 4 | 4 |
| 8.1 | 11 | Completing entries in a table and comparison of tables | 4 | 5 |

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

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|------------------------------------|-------------------------------|
| Level 5 : 18 ≤ Mark < 40 | Level 6 : Mark ≥ 40 |
|------------------------------------|-------------------------------|

| Chapter | Number | Question | Attainment Target | Level |
|---------|--------|--|-------------------|-------|
| 8.1 | 1 | Reading values from a straight line graph | 2 | 5 |
| 8.1 | 2 | Interpreting a pie chart | 4 | 6 |
| 9.2 | 3 | Calculating areas of rectangles given the perimeter | 3 | 5 |
| 9.2 | 4 | Calculation of areas of triangles, parallelograms and circle | 3 | 6 |
| 10.1 | 5 | Recognition of pattern in the number of tiles | 2 | 5 |
| 10.1 | 6 | Rule in words -> missing term and writing an algebraic rule | 2 | 5 |
| 11.1 | 7 | Substituting values into an algebraic expression | 2 | 6 |
| 8.1 | 8 | Estimating values from graph/calculate using a written rule | 2 | 5 |
| 11.2 | 9 | Simplification of algebraic expressions | 2 | 6 |
| 12.2 | 10 | Construction of a triangle/trapezium with ruler/protractor | 3 | 5 |
| 12.2 | 11 | Construction of a triangle with a compass | 3 | 6 |

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

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| Level 6 : 25 ≤ Mark < 42 | Level 7 : Mark ≥ 42 |
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| Chapter | Number | Question | Attainment Target | Level |
|---------|--------|--|-------------------|-------|
| 8.1 | 1 | Complete a frequency table and calculate and draw angles on a pie chart | 4 | 5/6 |
| 9.1 | 2 | Calculate areas of rectangles given the perimeters | 3 | 6 |
| 9.2 | 3 | Calculate areas of a triangle,parallelogram,circle and consruction of a triangle | 3 | 6 |
| 10.1 | 4 | Recognising patterns and finding missing pattern number and missing term in a sequence | 2 | 6 |
| 13.1 | 5 | Write down inequalities represented by diagrams | 2 | 7 |
| 13.1 | 6 | Solve and illustrate inequalities on a number line | 2 | 7 |
| 13.1 | 7 | Form an expression for the perimeter of a triangle and solve an inequality | 2 | 7 |
| 14.1 | 8 | Rounding distances to the nearest 10,100 and finding upper and lower bounds | 2 | 6/7 |

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

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|------------------------------------|-------------------------------|
| Level 6 : 24 ≤ Mark < 41 | Level 7 : Mark ≥ 41 |
|------------------------------------|-------------------------------|

| Chapter | Number | Question | Attainment Target | Level |
|---------|--------|--|-------------------|-------|
| 9.1 | 1 | Calculating areas of a triangle, trapezium, circle and construction of a rectangle and a parallelogram | 3 | 6 |
| 10.1 | 2 | Recognising patterns and finding a pattern number and a missing term in a sequence | 2 | 6 |
| 13.1 | 3 | Forming an expression for the perimeter of a rectangle and solving an inequality | 2 | 7 |
| 15.1 | 4 | Use Pythagoras Theorem to find a missing side of a right-angled triangle | 3 | 7 |
| 15.1 | 5 | Using Pythagoras Theorem in the calculation of the perimeter of a trapezium | 3 | 7 |
| 8.2 | 6 | Drawing a bar chart and calculating the mode, range and mean | 4 | 5 |

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