Maths Example Minimum Expectations for Key Stage 4

DFE guidance April 2019 states that local authorities may specify requirements as to effectiveness … in deciding whether education is suitable, whilst accepting that this must be applied in relation to the individual child's age, ability and aptitude. Children will be at different levels, some may be in advance, some at a lower level and some children may be working towards the minimum standard. Our Home Education Advisor will discuss where you think your child is and what your plans are in relation to providing a suitable education.

Assessing the minimum standard of age-expectation is based on the extent to which the student:

- **A.** Has an understanding of the basic terms and fundamental concepts within the topic
- **B.** Can recall and relate the essential knowledge that underpins the topic in order to answer straightforward questions
- **C.** Is fluent in using the skills and procedures to answer out-of-context questions
- **D.** Can use and apply the skills and procedures to solve routine problems in familiar contexts
- **E.** Can explain their methods, solutions, observations, patterns and generalisations
- **F.** Can apply reasoning skills, make connections and communicate their thinking
- **G.** Has the depth of knowledge and understanding needed to apply their learning to solve non-routine problems

Foundation GCSE topics:

- Prime Numbers, Factors and Fractions
- Decimals, Approximations and Accuracy
- Powers and Roots
- Ratios and Percentages
- Interest and managing money
- Time, Distance and Speed
- Linear Functions
- Graphs
- Algebraic Expressions
- Factorisation
- Solving Linear Equations
- Solving Quadratic and Other Equations
- Formulae
- Inequalities
- Function Notation; Triangular Numbers
- Basic Trigonometry and Vectors
- Angles, Straight Lines and Symmetry
- Triangles
- Bearings
- Quadrilaterals and Polygons
- Transformations

- The Circle
- Perimeter and Area
- Volume and capacity
- Nets and Plans
- Geometrical Constructions
- Loci
- Probability and Statistics
- Tables and charts
- Correlation
- Statistics
- Probability

Higher GCSE topics:

All of the above as well as:

- Further Numbers and Equations
- Proof
- Function Notation
- Solving Equations
- Graphs and Transformations
- The Equation of a Circle
- Gradients and Area under Curves
- Formulae and Fractions
- Brackets, Indices, etc
- More on Inequalities
- Further Geometry and Trigonometry
- Tangents, Solids, Vectors, etc
- The Sine Rule and the Cosine Rule
- Circles and Other Geometric Shapes
- Cumulative Frequency
- Conditional Probability

Example minimum expectations

Camden in line with [DFE guidance](#) has set some example minimum expectations for education in Maths and English for each Key stage – See Section 2.10 in parents guidance and 9.4 to 9.6 in LA guidance. **There is no requirement for you to follow these examples**

These are indications for parents and our advisor to get a better understanding of the education your child is receiving.

We recognise that children will be on journey in their education some child will be at expected level, some will be in advance of their key stage indicator, some may be working towards the indicator or some children due to their education needs maybe

below the indicator. You may find that children can do some elements of the different indicators as well.

Knowing where your child is can be helpful for you in setting work for them, ensuring it is appropriate for them but can also help you know where they could be "stretched" or work needs to be reviewed. It will also enable our home education advisor to offer a tailored set of advice for each child and make suggestions for parents so they can help support their child reach the minimum expectations where appropriate.

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