



Mathematics Syllabus for 11+ Entry

Girls entering Kent College in Year 7 should have the following mathematical skills:

- Know all their multiplication tables
- Understand place value
- Be capable of addition, subtraction, multiplication and division with whole numbers and decimals. They should be able to apply these skills to practical topics
- Have studied time with the 24-hour clock
- Know the British money system
- Understand the concept of equivalent fractions and understand what fractions represent. They should also understand the concept of proportion
- Know how percentages are related to fractions. Simple examples such as 10% and 25% should be familiar
- Be capable of performing long multiplication and long division, showing their working
- Know the meaning of the words "Multiple" and "Factor"
- Understand how to convert metric units and have learnt the relevant units
- Be capable of exploring linear number patterns and explaining rules in words or possibly symbols
- Understand the concepts of perimeter, area and volume. They should be able to find areas of shapes made up of combinations of rectangles
- Be able to describe the line symmetry and rotational symmetry of an object
- Have studied angles in triangles, angles on a straight line, angles in a quadrilateral, Equilateral and isosceles triangles
- Be able to interpret graphs and understand what they tell us. They should be able to use co-ordinates with 2 positive variables
- Understand the concept of probability and be capable of calculating this, in simple cases. They should be familiar with the words "Certain, likely, unlikely, impossible"
- Be familiar with calculations of averages
- Have developed abilities to visualise diagrams
- Be able to interpret bar charts, pictograms and pie charts

The 11+ mathematics examination is one hour long and is not multiple choice. Pupils are required to read the questions and answer by applying their knowledge and showing workings out. Calculators are not allowed.

If you have any questions about the syllabus, please contact Mrs Debbie Sainsbury, the Registrar, Kent College Pembury, Tunbridge Wells, Kent TN2 4AX.

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