



**Kent College Pembury  
13+ Mathematics Syllabus**

Girls who enter at Year 9 should be familiar with the following skills:

- Percentage increases.
- Rotations, reflections and translations.
- Ratios.
- Addition, subtraction, multiplication of fractions.
- Conversions between fractions, decimals and percentages.
- Significant numbers and decimal places.
- Directed numbers.
- Types of numbers eg prime, square. Able to express a number as a product of their primes.
- Simplifying algebraic expressions
- Expanding brackets and factorizing
- Solving equations with brackets.
- Use of indices
- Finding algebraic formulae from number patterns.
- Drawing graphs of straight lines from formulae.
- Angles formed with parallel lines.
- Angles in polygons.
- 2D drawings of 3D objects.
- Mean, mode, median and range.