



Cambridge Pre-U Mathematics (9794)

Additional guidance for this syllabus

Additional guidance given for this syllabus applies to specific components. The information below gives a brief description of the main topic covered by each question, given in approximate syllabus order.

Additional guidance for Component 9794/01: Pure Mathematics 1

Questions on this component will address the following topics:

Topic focus
Solve equations
Functions; Newton–Raphson method
Circular measure
Trigonometric equations
Sequences
Binomial expansion
Differentiation from first principles
Differentiation and integration with trigonometric functions
Intersection of vectors
Differential equations
Definitions of, and operations with, complex numbers

**Additional guidance for Component 9794/02: Pure Mathematics 2**

Questions on this component will address the following topics:

Topic focus
Quadratics
The modulus function
Points, lines and areas in coordinate geometry
Trigonometric equations
Solve trigonometry problems
Series
Differentiation and curves
Integration and curves
Solve integration problems
Relationships between vectors
Complex numbers and loci

Additional guidance for Component 9794/03: Applications of Mathematics

Questions on this component will address the following topics:

Topic focus
Mean and standard deviation
Probability laws involving two events
Arrangements
Binomial probabilities
Probability distributions
The normal distribution
Solve problems with velocity–time graphs
Friction, limiting equilibrium
Kinematics with connected particles
Particle collisions
Solve problems involving distances and direction of projectile motion