

School administrators, Heads of Learning Area – Mathematics and teachers of Mathematics Specialist ATAR Year 12 are requested to note for 2025 the following minor syllabus changes. The syllabus is labelled as ‘For teaching from 2025’.

Mathematics Specialist | ATAR Year 12 | Summary of minor syllabus changes for 2025

The content identified by ~~strikethrough~~ has been deleted from the syllabus. The content in italics has been included.

- 3.1.7 prove and use de Moivre’s theorem ~~for integral powers~~
- 3.1.14 ~~consider~~ *determine and use* conjugate roots for polynomials with real coefficients
- 3.3.4 use vector equations of curves in two or three dimensions involving a parameter and determine ~~‘a corresponding’~~ *an equivalent* Cartesian equation in the two-dimensional case
- 3.3.6 examine the positions of two particles, each described as ~~a~~ vector functions of time, and determine if their paths cross or if the particles meet
- 3.3.10 examine the three cases for solutions of systems of equations – a unique solution, no solution, and infinitely many solutions – and the geometric interpretation of ~~a~~ *the* solution of a system of equations with three variables
- 4.3.5 ~~use~~ *examine* the approximate confidence interval $\left(\bar{x} - \frac{zs}{\sqrt{n}}, \bar{x} + \frac{zs}{\sqrt{n}}\right)$ as an interval estimate for the population mean μ , where z is the appropriate quantile for the standard normal distribution

Assessment table – Year 12

Type of assessment	Weighting
<p>Response</p> <p>Students respond using knowledge of mathematical facts, concepts and terminology, applying problem-solving skills and algorithms. Response tasks can include: tests, assignments, quizzes and observation checklists. Tests are administered under controlled and timed conditions.</p> <p><i>Students apply mathematical knowledge and understanding of concepts, techniques and relationships to solve a mix of routine and non-routine questions, demonstrating their interpretation of concepts and results in applied and theoretical contexts. Response tasks can include: tests, assignments and multimedia representations.</i></p>	40%