

# Additional Mathematics 9

**Time: 6 x 35 minutes per week**

**Course Description:**

*The grade 9 Additional Mathematics course is aimed at building on the skills, knowledge and understanding of Mathematics gained in previous years. The content is more abstract in nature and challenges students. This subject should only be undertaken by students who have experienced a high level of success in previous years and whose knowledge of mathematical concepts is well established. Particular emphasis is placed on logical reasoning, problem-solving skills and the ability to think in abstract ways. Students are being prepared to sit for the IGCSE Additional Mathematics examinations at the end of grade 10.*

**Resources:**

**Teh, KengSeng and Loh, Cheng Yee, *New Syllabus Additional Mathematics (9<sup>th</sup> Edition)*, Shinglee Publishers, Singapore.**

**Teh, KengSeng and Loh, Cheng Yee, *Additional Mathematics Workbook*, Shinglee Publishers, Singapore.**

**Main Topics Covered:**

**Semester 1**

- Simultaneous equations
- Factors of polynomials
- Quadratic functions
- Indices and surds
- Logarithmic and exponential functions
- Straight line graphs

**Semester 2**

- Straight line graphs (continued)
- Circular measure
- Trigonometry
- Set language and notation
- Functions

## Assessment

Internal Assessment	Weighting
<ul style="list-style-type: none"> <li>• End of Semester Examinations (SA1 + SA2)</li> <li>• Continual Assessment (CA1 + CA2 + CA3 + CA4) including:                             <ul style="list-style-type: none"> <li>- Topic tests</li> <li>- Class work</li> <li>- Homework</li> </ul> </li> </ul>	25 + 45 10 + 5 + 10 + 5
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