

# NSW Year 11-12 Math Syllabus Survey Response

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The NSW Government invited survey responses to the 2024 year 11-12 math syllabus. Majority of the questions were multichoice, with the opportunity to provide some written feedback (limited to 200 characters per response).

Given the nature of the consultation, we were unable to provide a formal written response. However, we have created this document so our members can see the theme of our response.

### **Them of MEA's Response to 2024 Year 11-12 NSW Math Syllabus.**

#### **Suggested improvements to the syllabus.**

MEA strongly advocate for an additional 'Year 11-12 STEM Math' syllabus is created, specifically designed to prepare students looking to enter Trades post. (STEM = Science, Technology, Engineering & Math). In particular, we advocate for Algebra (transposing equations specific to the electrical industry and other relevant STEM trade) and Trig. (wave forms, equations - again specific to electrical industry and other STEM trades).

The emphasis trades place on algebra, calculus, and transposition of equations in, for instance, the studying of AC (Alternating Current) and DC (Direct Current) theory is imperative.

#### **How has the syllabus met the needs of diverse learning.**

Master Electricians Australia (MEA) believes establishing a 'Year 11-12 STEM Math' class will better meet the diverse needs of all students wanting to enter trades. It will better prepare these students for future success and assist in continued engagement throughout the year.

(STEM = Science, Technology, Engineering & Math)

#### **Strengths of the syllabus**

Amongst multiple responses, MEA highlighted the following:

- Financial math – this is particularly important students entering STEM trades which can often lead to financially rewarding careers, often paid through wages and penalties. For those wanting to develop careers into owning their own trade business, they will need to understand costs of running vehicles, depreciation, investments etc.
- Algebra and Trigonometry – however, we want to see these courses further developed to support student's transition into STEM trades.