

Mathematics Standard Syllabus Update

In order to maintain consistency throughout the suite of Stage 6 mathematics syllabuses, it has been necessary to make some alterations to the Mathematics Standard syllabus. The Mathematics Standard syllabus has been updated and re-released simultaneously with the release of the Mathematics Advanced, Mathematics Extension 1 and Mathematics Extension 2 syllabuses.

The Mathematics Standard syllabus has been updated on the NESA website. Schools that have used Program Builder to develop teaching programs will be alerted to changes to the outcomes and content with an error code. Acceptance of the changes will result in their programs being updated to the latest version of the syllabus.

Summary of changes to the Mathematics Standard syllabus

Coding of Content

- Australian curriculum (AC) codes that reflected the intent but not the precise AC wording have been removed. Some content statements have been reworded to match the AC wording.
- An explanation of the coding of common content by a paperclip has been added to the Mathematics Standard Key page.
- Paperclips have been added to Topics and content dot points to indicate the content that is common with the Mathematics Advanced syllabus. Some common content wording has been clarified as a result.

Outcomes

- Outcome MS11-4 now includes 'three-dimensional' figures to reflect the content points more accurately.
MS11-4 performs calculations in relation to two-dimensional and three-dimensional figures
- Outcome MS12-1-4 now includes 'three-dimensional' figures to build on Year 11.
MS12-1-4 analyses simple two-dimensional and three-dimensional models to solve practical problems

Content changes – including the glossary

- A new dash point has been added in Year 11 MS-M1 to clarify that scale factors and similar figures may be required to solve practical problems in measurement.
 - *review the use of a scale factor to find unknown lengths in similar figures*

- The word 'pyramids' has been added to a content point in Year 11 MS-M1 to clarify the scope required.
- The list of allowable tax deductions has been corrected in Year 11 MS-F1.
- The title of S1.2 has been simplified to 'Summary statistics' in Year 11 MS-S1.
- Heron's rule, which was common content and has been removed from Mathematics Advanced, has therefore been removed from Mathematics Standard.
- The word 'superannuation' has been replaced with 'annuity' to broaden the context in Year 12 MS-F5.
- A new dash point has been added in Year 12 MS-S4:
 - *demonstrate an awareness of issues of privacy and bias, ethics, and responsiveness to diverse groups and cultures when collecting and using data*
- Information and formulae that appeared in the glossary have been moved to the body of content. eg Young's formula, Clark's formula, Fried's formula
 - Formulae for the limits of accuracy, absolute error and percentage error have been added to content dot points in Year 11 MS-M1.
 - A dash point has been added to include the formula for the expected frequency in Year 11 MS-S2.
 - The term 'rectangular hyperbolic' has been added to a content dot point in Year 12 MS-A4.
 - The word 'minimum' has been added to a content dot point in Year 12 MS-N1 and MS-N2.
 - The sine rule, cosine rule and area of a triangle formulae have been added to the content dot points in Year 12 MS-M6.
 - The declining-balance method formula has been included in the content dot points in Year 12 MS-F1 and MS-F4.
- Some terms have been removed from the glossary. This includes their links within the online version of the syllabus, eg linear relationships. These terms are:
 - angles of elevation and depression, area of a triangle, association, budget, calorie, commission, compound interest (and formula), conversion graph, Coordinated Universal Time (UTC), cosine rule, declining-balance method, energy, error, expectation / expected frequency, gradient, income, inflation, interest, International Date Line (IDL), latitude, linear function / linear relationship, linear model, longitude, map scale, mass, mean (average), median, mode, non-linear, origin, overtime, position coordinates, pronumeral, random variable, range (of data), residuals, salary, scale drawing, significant figures, similarity, simple interest (and formula), sine rule, systolic pressure, wage
- Flags have been added in the glossary to indicate when an example is included in the Topic Guidance.

General changes

- The term 'digital technology' has been replaced with 'technology' where appropriate for consistency throughout the range of syllabuses.
- Corrections have been made to punctuation, grammar and abbreviations.
- In the subtopic focus the statement:

Within this subtopic, schools have the opportunity to identify areas of Stage 5 content which may need to be reviewed to meet the needs of students.

has been added where appropriate, for consistency with the Mathematics Advanced syllabus.

- The heading 'Knowledge, Understanding and Skills' has been reordered to 'Knowledge, Skills and Understanding', in pages other than generic text, to more accurately reflect the wording in the Topic Focus statements and to continue the pattern established in the Mathematics K–10 syllabus.

Teachers are advised to work with the online versions of the Mathematics syllabuses which will always be the most up-to-date version of the syllabus. When working with the PDF version of a syllabus teachers are advised to check the date of publication to ensure currency.