

# Syllabus update

## Cambridge International Level 3 Pre-U Certificate in Mathematics (9794) (for examination in 2016, 2017 and 2018)

We have updated this syllabus. The latest syllabus is version 3, published September 2016.

The Pre-U list of mathematical formulae and statistical tables (MF20) has been updated for examinations from June 2017. The updated version will be issued for future examinations.

The MF20 formulae list is duplicated on pages 22 to 39 of the updated syllabus document. There are no substantive changes to MF20 that affect this syllabus.

The following are changes made in version 2 of the syllabus, published September 2015.

There is a correction to the equations for arc length on page 25. The correction has been made to all three forms: the form for cartesian coordinates, the parametric form and the polar form.

Cartesian coordinates form:  $s = \int \sqrt{1 + \left(\frac{dy}{dx}\right)^2} dx$  has been updated to be  $s = \int \sqrt{1 + \left(\frac{dy}{dx}\right)^2} dx$

Parametric form:  $s = \int \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2} dt$  has been updated to be  $s = \int \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2} dt$

Polar form:  $s = \int \sqrt{r^2 + \left(\frac{dr}{d\theta}\right)^2} d\theta$  has been updated to be  $s = \int \sqrt{r^2 + \left(\frac{dr}{d\theta}\right)^2} d\theta$

The following are changes made in version 1 of the syllabus, published February 2014.

We revised and clarified the syllabus content. Additional detail in the content of the following syllabus sections has been provided:

- 'algebra' (page 13 of the syllabus)
- 'coordinate geometry' (page 14 of the syllabus)
- 'logarithms and exponentials' (page 15 of the syllabus)
- 'differentiation' (page 15 of the syllabus)
- 'complex numbers' (page 17 of the syllabus).

*continued*

- The percentage range of the assessment objectives (AOs) has been revised under the 'Relationship between the scheme of assessment and assessment objectives' section.
- In Papers 1 and 2 the balance of AO1 and AO3 has been changed slightly to make the ranges for both papers identical.
- In Paper 3 the balance of all the AOs has been changed slightly.

The specimen papers have been refreshed.

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