



Syllabus Change Mapping Document for Cambridge International AS & A Level Mathematics Pure Mathematics 1 Student's Book Second Edition

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We are working with Cambridge Assessment International Education towards endorsement of this forthcoming title

Take mathematical understanding to the next level with this accessible series, written by experienced authors, examiners and teachers.

Find out how our new Pure Mathematics 1 Student's Book covers the changes in the revised Cambridge International AS & A Level Mathematics syllabus (9709) from 2020 below. For more information about the full series of five Student's Books and components for this syllabus, go to www.hoddereducation.com/cambridgeasalevelmathematics.

Changes to syllabus for first examination from 2020:

Please visit www.cambridgeinternational.org for information about current syllabuses and full details of changes

The syllabus for Pure Mathematics 1 is now organised into the following main topics:

- 1.1 Quadratics
- 1.2 Functions
- 1.3 Coordinate geometry
- 1.4 Circular measure
- 1.5 Trigonometry
- 1.6 Series
- 1.7 Differentiation
- 1.8 Integration

New areas of study include the following:

New content in syllabus	Chapter in Hodder Education book
1.2 Functions <ul style="list-style-type: none"> • understand and use the transformations of the graph of $y = f(x)$ given by $y = f(x) + a$, $y = f(x + a)$, $y = af(x)$, $y = f(ax)$ and simple combinations of these 	Chapters 5 and 8
1.3 Coordinate geometry <ul style="list-style-type: none"> • understand that the equation $(x - a)^2 + (y - b)^2 = r^2$ represents the circle with centre (a, b) and radius r • use algebraic methods to solve problems involving lines and circles 	Chapter 3
1.7 Differentiation <ul style="list-style-type: none"> • understand the gradient of a curve at a point as the limit of the gradients of a suitable sequence of chords, and use the notations $f'(x)$, $f''(x)$, $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$ for first and second derivatives 	Chapter 6

Topics in the current syllabus which will no longer be covered include:

- **1.1 Quadratics:** linear inequalities content removed.
- **Vectors:** This section has moved from Paper 1 to Paper 3.

The prior knowledge requirements have been clarified, to state that simple manipulation of surds and graphs of the form $y = kx^n$ are included.

Why not try Sample Material with your students?

View more information about all components available for this syllabus and download Sample Material at www.hoddereducation.com/cambridgeasalevelmathematics