

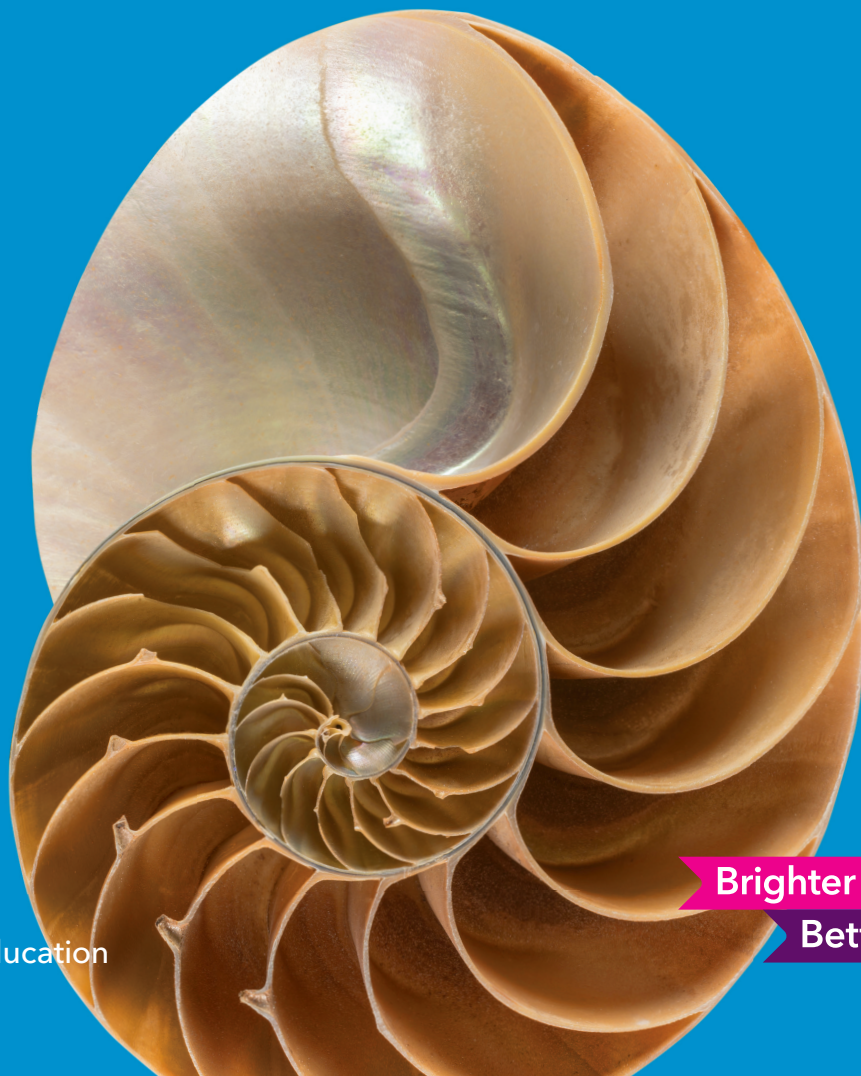


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Mathematics curriculum changes

What you need to know

Cambridge IGCSE[®] Mathematics
Cambridge IGCSE[®] and O Level Additional Mathematics
Cambridge International AS & A Level Mathematics



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How Cambridge University Press resources support you through the Mathematics syllabus changes. We are working with Cambridge Assessment International Education towards endorsement of our new Mathematics resources.

For first examination from 2020

	Key curriculum changes	What this means for you	How we support you
Cambridge IGCSE® Mathematics	<p>Syllabus changes have been introduced including the addition of:</p> <ul style="list-style-type: none"> o Alternate segment theorem o Stem and leaf diagrams o Introduction to differentiation o Venn diagrams <ul style="list-style-type: none"> • There will be some realignment of Core and Extended content, with some previously Extended content now becoming examinable at Core level • Greater emphasis on problem-solving at Core level 	<ul style="list-style-type: none"> • You will need to ensure your coursebook materials fully meet the new syllabus requirements • You will need to become familiar with sections of new content to deliver during the course, as well as minor changes and adjustments to the syllabus • More course time will be spent focusing on problem-solving for Core students 	<ul style="list-style-type: none"> • This series has been fully updated to cover the syllabus changes for Cambridge IGCSE® Mathematics. We are working with Cambridge Assessment International Education towards endorsement of these resources • The coursebook layout has been redesigned to ensure greater clarity of explanations and exercises, with Core and Extended material clearly signposted • We have added more worked examples and problem-solving questions at Core level to help encourage students to practise these skills
Cambridge IGCSE® and O Level Additional Mathematics	<p>Significant changes to the syllabus have been introduced for examination from 2020</p> <ul style="list-style-type: none"> • New topics have been introduced and content removed from the syllabus: <ul style="list-style-type: none"> o Sets and matrices have been removed o New content introduced on series, inequalities and graphs 	<ul style="list-style-type: none"> • You will need to ensure your coursebook materials fully meet the new syllabus requirements • You will need to become familiar with the content that has been added and removed • The coursebook required will be dependent on which examination you intend to submit your students for. You will need to be aware of this, particularly in 2018 and 2019 	<ul style="list-style-type: none"> • This series has been fully updated to cover the syllabus changes for Cambridge IGCSE® and O Level Additional Mathematics. We are working with Cambridge Assessment International Education towards endorsement of these resources • We make the date of the first examination of the syllabus clear on the back cover of our materials • A detailed table of contents informs you of the overall structure of the course • Two new chapters introduced: series, inequalities and graphs • The teacher's resource will be updated to provide supporting notes for delivery of all new content in the coursebook
Cambridge International AS & A Level Mathematics	<p>Syllabus changes have been introduced including:</p> <ul style="list-style-type: none"> • Pure Mathematics 1: removal of linear inequalities and vectors, addition of transformation of functions, equation of a circle and algebraic solutions • Pure Mathematics 2 & 3: increased emphasis on sketching modulus function graphs introduced, vector content from Pure Mathematics 1 moved to Paper 3 • Mechanics: new section added on momentum, Mechanics 2 content entirely withdrawn and moved to Further Mathematics • Introduction of Key Concepts in syllabus to underpin mathematical learning • Changes to option routes through the qualification (including the removal of the Mechanics 2 option) 	<ul style="list-style-type: none"> • You will need to ensure your coursebook materials fully meet the new syllabus requirements • Key concepts of problem solving, communication and mathematical modelling underpin the chapters • You will need to be familiar with the routes to the AS & A Level 	<ul style="list-style-type: none"> • This series has been fully updated to cover the syllabus changes for Cambridge International AS & A Level Mathematics. We are working with Cambridge Assessment International Education towards endorsement of these resources • Question icons to show distinctive problem solving, proof and modelling questions appear in the exercises. Worked examples demonstrate good practice in finding routes to solutions. Authorial voice reflects the way Mathematicians talk about Mathematics to each other and the wider world • Relevant Mechanics 2 content now covered in our Further Mathematics coursebook • Supporting teacher's resource will help you plan course delivery, incorporating areas where new content has been added or removed • Additional practice books will be available for students who need more questions to consolidate their skills • You can be confident that whichever route your students choose to take to AS or A Level, there will be quality content that meets teaching and learning needs

Brighter Thinking, Better Learning

Brighter Thinking drives our approach to Mathematics: a solid foundation of research from leading educational thinkers and Mathematics teachers in Cambridge and around the world underpins the resources we publish to support students learning

Mathematics. Through a flexible suite of resources, designed to meet a wide range of needs in the classroom, Better Learning is possible. Students can accelerate their learning and develop skills for life.

Endorsed for full
syllabus coverage by



Cambridge Assessment
International Education

IGCSE MATHEMATICS Online

The only digital IGCSE Mathematics resource endorsed by Cambridge Assessment International Education for full syllabus coverage.

With Core and Extended material clearly marked throughout, this interactive course contains:

- Worked examples
- Walkthroughs
- Additional lessons
- Worksheets
- Quizzes



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*Cambridge IGCSE® Mathematics Online is endorsed for full syllabus coverage for examination up to 2019. We are working towards endorsement by Cambridge International for examination from 2020.



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