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Level Further Mathematics Further Probability and Statistics British Reports, Translations and Theses

This book provides in-depth coverage of Further Pure Mathematics 2 for Cambridge International A Level Further Mathematics 9231, for examination from 2020 onwards. With a clear focus on mathematics in life and work, this text builds the key mathematical skills and knowledge that will open up a wide range of careers and further study. Exam Board: Cambridge Assessment International Education First teaching: 2018 First exams: 2020 This student book is part of a series of nine books covering the complete syllabus for Cambridge International AS and A Level Mathematics (9709) and Further Mathematics (9231), for first teaching from September 2018 and first examination from 2020. We are working with Cambridge Assessment International Education towards endorsement of this series. Written by expert authors, this Student Book:\* covers the complete content of Further Pure Mathematics 2 with clear references to what you will learn at the start of each chapter, and coverage that clearly and directly matches the Cambridge syllabus\* sets mathematics in real-world contexts that emphasise practical

applications and career paths, with inspiring case studies and discussion activities that showcase how mathematics is relevant to different roles\* develops the key A Level mathematical skills of mathematical modelling, problem-solving and communication through dedicated questions and teaching\* helps you master mathematics with varied practice to develop understanding, exam-style questions to test comprehension, and selected Cambridge past paper questions to help prepare for examination\* gives you control of your learning with prior knowledge checks to assess readiness and end-of-chapter summaries that test understanding\* supports you through the course with detailed explanations, clear worked examples and plenty of practice on each topic with full workings shown for each answer\* provides clear progression from A Level Mathematics and develops confident, independent and reflective mathematicians through extension questions and group discussions\* supports mathematical communication and literacy with key terms for each topic explained and supported by a comprehensive glossary. Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage. This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 2 and 3 (P2 and P3) units of Cambridge AS and

A Level Mathematics (9709). Additional materials have been added to sections on logarithmic and exponential functions, the derivative of  $\tan x$  and vectors. All of the review questions have been updated to reflect changes in the style of questions asked in the course. The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS Level students of the 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. The Nelson Pure Mathematics 2 and 3 for Cambridge International A Level text is designed for students taking the P2 and P3 exam papers. It provides introductions to topics and step-by-step worked examples to aid students in their understanding of the course material. Regular summaries of formulae and key pieces of information help students to revise. Numerous exercises provide opportunities to practice learning and to embed and develop skills. Students are well equipped to reach their full potential, with practice exam papers providing opportunities for effective exam preparation. This book provides in-depth coverage of Further Pure Mathematics 1 for Cambridge International AS and A Level Further Mathematics 9231, for examination from 2020 onwards. With a clear focus on mathematics in life and work, this text builds the key

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examination\* gives you control of your learning with prior knowledge checks to assess readiness and end-of-chapter summaries that test understanding\* supports you through the course with detailed explanations, clear worked examples and plenty of practice on each topic with full workings shown for each answer\* provides clear progression from A Level Mathematics and develops confident, independent and reflective mathematicians through extension questions and group discussions\* supports mathematical communication and literacy with key terms for each topic explained and supported by a comprehensive glossary. The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS level students of the latest 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. The Nelson Pure Mathematics 2 and 3 for Cambridge International A Level text is designed for students taking the P2 and P3 exam papers. It provides introductions to topics and step-by-step worked examples to aid students in their understanding of the course material. Regular summaries of formulae and key pieces of information help students to revise. Numerous exercises provide opportunities to practice learning and to embed and develop skills. Students are

well equipped to reach their full potential, with practice exam papers providing opportunities for effective exam preparation. This book provides in-depth coverage of Probability & Statistics 1 for Cambridge International AS and A Level Mathematics 9709, for examination from 2020 onwards. With a clear focus on mathematics in life and work, this text builds the key mathematical skills and knowledge that will open up a wide range of careers and further study. Exam Board: Cambridge Assessment International Education First teaching: 2018 First exams: 2020 This student book is part of a series of nine books covering the complete syllabus for Cambridge International AS and A Level Mathematics (9709) and Further Mathematics (9231), for first teaching from September 2018 and examination from 2020. We are working with Cambridge Assessment International Education towards endorsement of this series. Written by expert authors, this Student Book:\* covers the complete content of Probability & Statistics 1 with clear references to what you will learn at the start of each chapter, and coverage that clearly and directly matches the Cambridge syllabus\* sets mathematics in real-world contexts that emphasise practical applications and career paths, with inspiring case studies and discussion activities that showcase how mathematics is relevant to different roles\* develops the key A Level mathematical skills

of mathematical modelling, problem-solving and communication through dedicated questions and teaching\* helps you master mathematics with varied practice to develop understanding, exam-style questions to test comprehension, and selected Cambridge past paper questions to help prepare for examination\* gives you control of your learning with prior knowledge checks to assess readiness and end-of-chapter summaries that test understanding\* supports you through the course with detailed explanations, clear worked examples and plenty of practice on each topic with full workings shown for each answer\* provides clear progression from IGCSE® Mathematics and develops confident, independent and reflective mathematicians through extension questions and group discussions\* supports mathematical communication and literacy with key terms for each topic explained and supported by a comprehensive glossary. Exam board: Cambridge Assessment International Education Level: A-level Subject: Mathematics First teaching: September 2018 First exams: Summer 2020 Endorsed by Cambridge Assessment International Education to provide full support for Paper 3 of the syllabus for examination from 2020. Take mathematical understanding to the next level with this accessible series, written by experienced authors, examiners and teachers. - Improve confidence

as a mathematician with clear explanations, worked examples, diverse activities and engaging discussion points. - Advance problem-solving, interpretation and communication skills through a wealth of questions that promote higher-order thinking. - Prepare for further study or life beyond the classroom by applying mathematics to other subjects and modelling real-world situations. - Reinforce learning with opportunities for digital practice via links to the Mathematics in Education and Industry's (MEI) Integral platform in the eTextbooks.\*

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Please note that the Integral resources have not been through the Cambridge International endorsement process. Answers to exercise questions are on Cambridge Extras: [www.hoddereducation.co.uk/cambridgeextras](http://www.hoddereducation.co.uk/cambridgeextras)

This book covers the syllabus content for Further Mechanics, including motion of a projectile, equilibrium of a rigid body, circular motion, Hooke's law, linear motion under a variable force and momentum. About the series: Four separate textbooks ensure full coverage

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worked examples to aid students in their understanding of the course material. Learning objectives are also included, letting students know exactly what they need to learn and understand in each topic. Plenty of examples throughout the text strengthen students' understanding. Students are well equipped to reach their full potential, with practice exam papers providing opportunities for effective exam preparation. This brand new series has been written for the University of Cambridge International Examinations course for AS and A Level Mathematics (9709). This title covers the requirements of M1 and M2. The authors are experienced examiners and teachers who have written extensively at this level, so have ensured all mathematical concepts are explained using language and terminology that is appropriate for students across the world. Students are provided with clear and detailed worked examples and questions from Cambridge International past papers, so they have the opportunity for plenty of essential exam practice. Each book contains a free CD-ROM which features the unique 'Personal Tutor' and 'Test Yourself' digital resources that will help students revise and reinforce concepts away from the classroom: - With Personal Tutor each student has access to audio-visual, step-by-step support through exam-style questions - The Test Yourself interactive multiple choice questions identify weaknesses and point students in the right direction This book

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explanations, worked examples, diverse activities and engaging discussion points. - Advance problem-solving, interpretation and communication skills through a wealth of questions that promote higher-order thinking. - Prepare for further study or life beyond the classroom by applying mathematics to other subjects and modelling real-world situations. - Reinforce learning with opportunities for digital practice via links to the Mathematics in Education and Industry's (MEI) Integral platform in the eTextbooks.\* \*To have full access to the eTextbooks and Integral resources you must be subscribed to both Dynamic Learning and Integral. To trial our eTextbooks and/or subscribe to Dynamic Learning, visit: [www.hoddereducation.co.uk/dynamic-learning](http://www.hoddereducation.co.uk/dynamic-learning); to view samples of the Integral resources and/or subscribe to Integral, visit [integralmaths.org/international](http://integralmaths.org/international) Please note that the Integral resources have not been through the Cambridge International endorsement process. This book covers the syllabus content for Probability and Statistics 1, including representation of data, permutations and combinations, probability, discrete random variables and the normal distribution. Available in this series: Five textbooks fully covering the latest Cambridge International AS & A Level Mathematics syllabus (9709) are accompanied by a Workbook, and Student and Whiteboard

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understanding\* supports you through the course with detailed explanations, clear worked examples and plenty of practice on each topic with full workings shown for each answer\* provides clear progression from IGCSE® Mathematics and develops confident, independent and reflective mathematicians through extension questions and group discussions\* supports mathematical communication and literacy with key terms for each topic explained and supported by a comprehensive glossary. This brand new series has been written for the University of Cambridge International Examinations course for AS and A Level Mathematics (9709). This title covers the requirements of P1. The authors are experienced examiners and teachers who have written extensively at this level, so have ensured all mathematical concepts are explained using language and terminology that is appropriate for students across the world. Students are provided with clear and detailed worked examples and questions from Cambridge International past papers, so they have the opportunity for plenty of essential exam practice. Each book contains a free CD-ROM which features the unique 'Personal Tutor' and 'Test Yourself' digital resources that will help students revise and reinforce concepts away from the classroom: - With Personal Tutor each student has access to audio-visual, step-by-step support through exam-style questions - The Test Yourself

interactive multiple choice questions identify weaknesses and point students in the right direction Glass fibres are melt-spun, silica-based inorganic materials. Their main application is in glass fibre-reinforced composites, which account for more than 90% of all fibre-reinforced composites currently produced. Nevertheless, improvement of the key properties of composites remains challenging. The objective of this reprint is to focus on actual research topics related to glass fibres comprising multifunctional nanostructured surfaces, e.g., graphene, which can lead to electrically conductive fibres and their interphases in composites that are capable of uptake under a variety of mechanical, chemical, humidity, and thermal conditions for in situ sensing functions. Sizing of glass fibres help to protect the filaments from failure during processing and improves wetting and adhesion strength. Furthermore, the interphase may be varied by suppressing or promoting heterogeneous nucleation of a thermoplastic matrix and, thus, the transcrystalline layer can improve the mechanical performance. Improved interfacial shear strength was shown with chitosan as a coupling agent in phosphate glass fiber/polycaprolactone composites. Modulus mapping of plasma-synthesised interphases in glass fibre/polyester composites was used to examine the local mechanical properties across the interphase region. In

addition, numerous analytical techniques were applied to investigate changes within the surface of unsized boron-free E-glass fibers after thermal conditioning at temperatures up to 700 °C. This book provides in-depth coverage of Pure Mathematics 2 and 3 for Cambridge International AS and A Level Mathematics 9709, for examination from 2020 onwards. With a clear focus on mathematics in life and work, this text builds the key mathematical skills and knowledge that will open up a wide range of careers and further study. Exam Board: Cambridge Assessment International Education First teaching: 2018 First exams: 2020 This student book is part of a series of nine books covering the complete syllabus for Cambridge International AS and A Level Mathematics (9709) and Further Mathematics (9231), for first teaching from September 2018 and examination from 2020. We are working with Cambridge Assessment International Education towards endorsement of this series. Written by expert authors, this Student Book\* covers all the content of Pure Mathematics 2 and the additional A Level-only content for Pure Mathematics 3 with clear references to what you will learn at the start of each chapter, and coverage that clearly and directly matches the Cambridge syllabus\* sets mathematics in real-world contexts that emphasise practical applications and career paths, with inspiring case studies and discussion

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\*To have full access to the eTextbooks and Integral resources you must be subscribed to both Dynamic Learning and Integral. To trial our eTextbooks and/or subscribe to Dynamic Learning, visit: [www.hoddereducation.co.uk/dynamic-learning](http://www.hoddereducation.co.uk/dynamic-learning); to view samples of the Integral resources and/or subscribe to Integral, visit [integralmaths.org/international](http://integralmaths.org/international)

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Mathematics 1: Student Textbook (ISBN 9781510421721), Student eTextbook (ISBN 9781510420762), Whiteboard eTextbook (ISBN 9781510420779), Workbook (ISBN 9781510421844) Pure Mathematics 2 and 3: Student Textbook (ISBN 9781510421738), Student eTextbook (ISBN 9781510420854), Whiteboard eTextbook (ISBN 9781510420878), Workbook (ISBN 9781510421851) Mechanics: Student Textbook (ISBN 9781510421745), Student eTextbook (ISBN 9781510420953), Whiteboard eTextbook (ISBN 9781510420977), Workbook (ISBN 9781510421837) Probability & Statistics 1: Student Textbook (ISBN 9781510421752), Student eTextbook (ISBN 9781510421066), Whiteboard eTextbook (ISBN 9781510421097), Workbook (ISBN 9781510421875) Probability & Statistics 2: Student Textbook (ISBN 9781510421776), Student eTextbook (ISBN 9781510421158), Whiteboard eTextbook (ISBN 9781510421165), Workbook (9781510421882) The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS Level students of the 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. Nelson Mechanics 2 for

Cambridge International A Level is for students taking the M2 exam paper. The text provides introductions to topics and step-by-step worked examples to aid students in their understanding of the course material. Other features include: learning objectives, letting students know what they need to learn in each topic; summaries of formulae and key information, helping students to revise; clear diagrams, helping to explain difficult concepts, and plenty of examples, strengthening students' understanding. In addition, practice exam papers provide students with opportunities for effective exam preparation and so help them reach their full potential. The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS level students of the latest 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. The Nelson Pure Mathematics 1 for Cambridge International A Level text is designed for students taking the P1 exam paper. It provides introductions to topics and step-by-step worked examples to aid students in their understanding of the course material. Regular summaries and mixed exercises are included, enabling students to consolidate their learning. Students are well equipped to reach their full potential, with practice exam papers providing opportunities for effective



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worked examples to aid students in their understanding of the course material. Learning objectives are also included, letting students know exactly what they need to learn and understand in each topic. Plenty of examples throughout the text strengthen students' understanding. Students are well equipped to reach their full potential, with practice exam papers providing opportunities for effective exam preparation. The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS level students of the latest 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. Nelson Probability and Statistics 2 for Cambridge International A Level is for students taking the S2 exam paper. The text aids students in their understanding of course material by providing introductions to concepts accompanied by example questions and their solutions, showing each step of the workings and commenting on the reasoning processes involved. Mixed exercises with more detailed questions, similar to those found in the actual examinations, test the knowledge of content covered in previous chapters, helping students to apply knowledge. In addition, practice exam papers provide students with opportunities for effective exam preparation and so help them reach their full This book

provides in-depth coverage of Further Probability & Statistics for Cambridge International AS and A Level Further Mathematics 9231, for examination from 2020 onwards. With a clear focus on mathematics in life and work, this text builds the key mathematical skills and knowledge that will open up a wide range of careers and further study. Exam Board: Cambridge Assessment International Education First teaching: 2018 First examination: 2020 This student book is part of a series of nine books covering the complete syllabus for Cambridge International AS and A Level Mathematics (9709) and Further Mathematics (9231), for first teaching from September 2018 and first examination from 2020. We are working with Cambridge Assessment International Education towards endorsement of this series. Written by expert authors, this Student Book:\* covers the complete content of Further Probability & Statistics with clear references to what you will learn at the start of each chapter, and coverage that clearly and directly matches the Cambridge syllabus\* sets mathematics in real-world contexts that emphasise practical applications and career paths, with inspiring case studies and discussion activities that showcase how mathematics is relevant to different roles\* develops the key A Level mathematical skills of mathematical modelling, problem-solving and communication through

dedicated questions and teaching\* helps you master mathematics with varied practice to develop understanding, exam-style questions to test comprehension, and selected Cambridge past paper questions to help prepare for examination\* gives you control of your learning with prior knowledge checks to assess readiness and end-of-chapter summaries that test understanding\* supports you through the course with detailed explanations, clear worked examples and plenty of graduated practice on each topic with full workings shown for each answer\* provides clear progression from A Level Mathematics and develops confident, independent and reflective mathematicians through extension questions and group discussions\* supports mathematical communication and literacy with key terms for each topic explained and supported by a comprehensive glossary. This series has been developed specifically for the Cambridge International AS & A Level Mathematics (9709) syllabus to be examined from 2020. Cambridge International AS & A Level Mathematics: Pure Mathematics 2 & 3 matches the corresponding units of the syllabus. It clearly indicates materials required for P3 study only, and contains materials on topics such as logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solutions of equations, vectors and complex numbers. This coursebook contains a variety

of features including recap sections for students to check their prior knowledge, detailed explanations and worked examples, end-of-chapter and cross-topic review exercises and 'Explore' tasks to encourage deeper thinking around mathematical concepts. Answers to coursebook questions are at the back of the book. This brand new series has been written for the University of Cambridge International Examinations course for AS and A Level Mathematics (9709). This title covers the requirements of P2 and P3. The authors are experienced examiners and teachers who have written extensively at this level, so have ensured all mathematical concepts are explained using language and terminology that is appropriate for students across the world. Students are provided with clear and detailed worked examples and questions from Cambridge International past papers, so they have the opportunity for plenty of essential exam practice. Each book contains a free CD-ROM which features the unique 'Personal Tutor' and 'Test Yourself' digital resources that will help students revise and reinforce concepts away from the classroom: - With Personal Tutor each student has access to audio-visual, step-by-step support through exam-style questions - The Test Yourself interactive multiple choice questions identify weaknesses and point students in the right direction. Exam board: Cambridge Assessment International Education Level: A-level Subject: Mathematics

First teaching: September 2018  
First exams: Summer 2020  
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