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Computer Science

Second Edition

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David Watson,Helen Williams



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Cambridge IGCSE and O Level Computer Science Study and Revision Guide Second Edition David Watson, Helen Williams, 2022-09-09 Stretch yourself to achieve the highest grades with structured syllabus coverage varied exam style questions and annotated sample answers to help you to build the essential skill set for exam success Benefit from expert advice and tips on skills and knowledge from experienced subject authors Target revision and focus on important concepts and skills with key objectives at the beginning of every chapter Keep track of your own progress with a handy revision planner Consolidate and apply your understanding with exam style questions Apply your understanding of theoretical content and practical skills with sample practice papers written by the authors at the end of the book and online Answers can be found at hoddereducation.com/cambridgeextras **Higher Education Computer Science** Jenny Carter, Michael O'Grady, Clive Rosen, 2018-09-21 There is currently a great emphasis on teaching quality in Higher Education In the UK the Teaching Excellence Framework and the National Student Survey have contributed significantly to this focus Additional support for staff to develop teaching skills has also come from the Higher Education Academy whose fellowship scheme encourages HE staff to focus on their practice in the classroom The growth in the number of students attending university has resulted in a much wider range of learning styles amongst them Many students do not fit the idealised average of being adept at learning from primarily text based media Two further trends are also driving change and innovation in academic staff teaching The first is the availability of online teaching materials such as MOOCs The second is the emphasis now given to student postgraduate employability represented by certain aspects of the Teaching Excellence Framework that require

students not only to know information but also to be able to articulate that knowledge and to demonstrate their skills With a desire to enable our students to achieve their highest potential many staff undertake initiatives to facilitate learning that accommodate a wide range of learning styles This book focuses on approaches to teaching and learning within the discipline of Computer Science The book consists of a selection of chapters that describe a particular teaching activity or topic within Computing in HE presented in such a way that other practitioners can adopt and adapt them as a way of helping them to develop their own teaching It provides a number of practical cases of putting theory into practice when teaching Computer Science to both undergraduate and postgraduate students in Higher Education institutions A chapter on the importance of developing soft skills and a professional online presence is also included as an essential part of preparing the students for their future employment

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Cambridge IGCSE and O Level Computer Science Second Edition David Watson, Helen Williams, 2021-04-16 This title is endorsed by Cambridge Assessment International Education to support the full syllabus for examination from 2023 Benefit from the knowledge of our renowned expert authors to navigate through the content of the updated Cambridge IGCSE TM and O Level Computer Science syllabuses 0478 0984 2210 Develop computational thinking and problem solving skills clearly explained concepts are followed by opportunities to implement in the programming language of choice Build an understanding of computer systems and associated technologies carefully prepared worked

examples explain new ideas alongside activities to test and consolidate Navigate the syllabus confidently supplementary subject content is flagged clearly with introductions to each topic outlining the learning objectives Satisfy curiosity students are encouraged to deepen their knowledge and understanding of the subject with Extension Activities and Find Out More Consolidate skills and check understanding self assessment questions activities and exam style questions are embedded throughout the book alongside key definitions of technical terms and a glossary Answers to the Student Book are available in Cambridge IGCSE and O Level Computer Science Teacher s Guide with Boost Subscription 9781398318502

Computational Thinking Education Siu-Cheung Kong, Harold Abelson, 2019-07-04 This This book is open access under a CC BY 4.0 license This book offers a comprehensive guide covering every important aspect of computational thinking education It provides an in depth discussion of computational thinking including the notion of perceiving computational thinking practices as ways of mapping models from the abstraction of data and process structures to natural phenomena Further it explores how computational thinking education is implemented in different regions and how computational thinking is being integrated into subject learning in K 12 education In closing it discusses computational thinking from the perspective of STEM education the use of video games to teach computational thinking and how computational thinking is helping to transform the quality of the workforce in the textile and apparel industry

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