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publishing in september 2014 edexcel gcse computer science has been written by steve cushing a well respected and widely published author for secondary computing and a former examiner with edexcel gcse computer science students will have the assurance that all topics in the course are covered comprehensively with particular support to help them understand the principles

of computer science and computational thinking in preparation for the written exam teachers and students can make use of strategies and advice throughout when choosing appropriate programming languages for both the written and practical units user friendly and accessible practical examples will help to unpick theoretical topics

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build student confidence and ensure successful progress through gcse computer science our expert authors provide insight and guidance to meet the demands of the new ocr specification with challenging tasks and activities to test the computational skills and knowledge required for success in their exams and advice for successful completion of the non examined assessment builds students knowledge and confidence through detailed topic coverage and explanation of key terms develops computational thinking skills with practice exercises and problem solving tasks ensures progression through gcse with regular assessment questions that can be developed with supporting dynamic learning digital resources instils a deeper understanding and awareness of computer science and its applications and implications in the wider world

the pearson edexcel gcse 9 1 computer science student book will support you through your gcse in computer science with a scenario based approach to problem solving and computational thinking the content is designed to inspire and motivate by helping you to relate and apply your skills to real world contexts and make learning relevant

supporting great computer science teaching through a scenario based approach to problem solving and computational thinking our resources are designed to inspire and motivate students by relating and applying their skills to real world contexts and making learning relevant

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written for the ocr gcse computer science updated specification j277 for first teaching from 2020 this print student book has been updated and reordered and uses an exciting and engaging approach to help students build their knowledge and master underlying computing principles and concepts designed to develop computational thinking programming and problem solving skills this resource includes challenges and real life examples that demonstrate how computer science relates to everyday life with practice questions our new reflection feature will help students to reflect on their progress and see where they could improve answers can be found in the teacher s resource

a new series of bespoke full coverage resources developed for the 2016 aqa and ocr gcse computer science qualifications written for the ocr gcse computer science specification for first teaching from 2016 this print student book uses an exciting and engaging approach to help students build their knowledge and master underlying computing principles and concepts designed to develop computational thinking programming and problem solving skills this resource includes challenges that build on learning objectives and real life examples that demonstrate how computer science relates to everyday life remember features act as revision references for students and key mathematical skills relevant to computer science are highlighted throughout a digital cambridge elevate enhanced edition and a free digital teacher s resource are also available

tackle the new edexcel gcse computer science specification with confidence with the only student s book to provide full coverage of the specification and associated resources to create outstanding lessons and meaningfully assess pupil progress

this book is a complete textbook for computer science for secondary school students it provides comprehensive coverage of the edexcel gcse computer science specification for first examination in 2018 there are 30 chapters divided into 8 sections with over 100 questions and exercises to test your knowledge and understanding although there is a lot of programming included this is a textbook not a practical course in programming computational thinking via abstraction and algorithms is stressed wherever applicable there are full pseudocode and flowcharts for all major algorithms with implementation in python there is a complete worked example from beginning to end of a short

computer programming project implemented in python this is based on the specification for the non exam assessment nea in short this book should provide everything you need for success in computer science at this level note by choosing some of the extensions and with a careful study of the appropriate specifications this book could be used for the edexcel 2015 ocr 2018 and aqa 2018

this second edition of a gcse computer studies text includes chapters on personal computers and desktop publishing spreadsheets and their applications and detailed case studies illustrating how a computer system can revolutionize the working environment the data protection act is also included together with project work an extended section on coursework advice on how to revise and hints on how to pass examinations key words are explained in the text in context and highlighted with bold type and also explained in an extensive glossary

this textbook provides comprehensive yet concise coverage of all the topics covered in unit a451 computer systems and programming of the ocr gcse computing specification j275 written and presented in a way that is accessible to teenagers it will be invaluable both as a course text and as a revision guide for students nearing the end of their course it is divided into seven chapters corresponding to the seven sections of the specification each ending with a glossary of terms and exam questions from past ocr gcse papers

illustrated revision and practice absolute clarity is the aim with a new generation of revision guide for the 2020s this guide has been expertly compiled and edited by successful former teachers of computer science highly experienced examiners and a good dollop of scientific research into what makes revision most effective

this pocket reference book provides the tools needed to revise effectively and prepare for the exams with confidence the quick reference section includes advice on tricky topics and coursework plus essential key facts in an accessible format

providing guidance that helps students practice and troubleshoot their exam technique these books send them into their exam with the confidence to aim for the best grades enables students to avoid common misconceptions and mistakes by highlighting them throughout builds students skills constructing and writing answers as they progress through a range of practice questions allows students to mark their own responses and easily identify areas for improvement using the answers in the back of the book helps students target their revision and focus on important concepts and skills with key objectives at the beginning of every chapter ensures that students maximise their time in the

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