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GCSE Geography Edexcel B 2020-07-16 A student-friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification, this brand new course is written to match the demands of the specification. As well as providing thorough and rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

Quantum Theory Cannot Hurt You Marcus Chown 2008-09 The two towering achievements of modern physics are quantum theory and Einstein's general theory of relativity. Together, they explain virtually everything about the world we live in. But, almost a century after their advent, most people haven't the slightest clue what either is about. Did you know that there's so much empty space inside matter that the entire human race could be squeezed into the volume of a sugar cube? Or that you grow old more quickly on the top floor of a building than on the ground floor? And did you realize that 1% of the static on a TV tuned between stations is the relic of the Big Bang? Marcus Chown, the bestselling author of What A Wonderful World and the Solar System app, explains all with characteristic wit, colour and clarity, from the Big Bang and Einstein's general theory of relativity to probability, gravity and quantum theory. 'Chown discusses special and general relativity, probablity waves, quantum entanglement, gravity and the Big Bang, with humour and beautiful clarity, always searching for the most vivid imagery.' Steven Poole, Guardian

International Management Paul D. Sweeney 2014-09-19 As the economies of many countries become more interrelated, international managers are facing huge challenges and unique opportunities associated with their roles. Now in its fifth edition, Sweeney and McFarlin's International Management embodies a balanced and integrated approach to the subject, emphasizing the strategic opportunities available to firms on a global playing field, as well as exploring the challenges of managing an international workforce. Integrating theory and practice across all chapter topics, this book helps students to learn, grasp, and apply the underlying principles of successful international management: Understanding the broad context of international business, including the critical trends impacting international management, the legal and political forces driving international business, and the ethical and cultural dilemmas that can arise Mastering the essential elements of effective interaction in the international arena, from cross-cultural understanding and communication to cross-border negotiation Recognizing and taking advantage of strategic opportunities, such as entering and operating in foreign markets Building and leading effective international teams, including personal and behavioral motivation, as well as taking an international perspective on the hiring, training, and development of employees These principles are emphasized in the text with current examples and practical applications, establishing a foundation for students to apply their understanding in the current global business environment. With a companion website featuring an instructor's manual, powerpoint slides, and a testbank, International Management, 5e is a superb resource for instructors and students of international management.

GCSE Computer Science for AQA Student Book David Waller 2016-06-02 A new series of bespoke, full-coverage resources developed for the 2016 AQA and OCR GCSE Computer Science qualifications. Written for the AQA 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.

From Computer Literacy to Informatics Fundamentals Roland T. Mittermeir 2005-02-28 This book constitutes the refereed proceedings of the International Conference on Informatics in Secondary Schools - Evolution and Perspectives, ISSEP 2005, held in Klagenfurt, Austria in March/April 2005. The 21 revised full papers presented together with an introduction were carefully reviewed and selected for inclusion in the book. A broad variety of topics related to teaching informatics in secondary schools is addressed ranging from national experience reports to paedagogical and methodological issues.

AQA GCSE Physics Teacher Handbook (Third Edition) Darren Forbes 2016-03-04 Specifically tailored for the new 2016 AQA GCSE Science (9-1) specifications, this third edition supports your students on their journey from Key Stage 3 and through to success in the new linear GCSE qualifications. This series help students and teachers monitor progress, while supporting the increased demand, maths, and new practical requirements.

An Inspector Calls John B. Priestley 2010 This brilliant series now includes new editions of 17 top titles full-colour, A4 format to meet the changing needs of GCSE students. Written by GCSE examiners and teachers to give all students an expert understanding of the text, they include: * an invaluable exam skills section with essay plans, sample answers and expert guidance on understanding exam questions to show students what they need to do to reach their potential. * a wealth of useful content including key quotes, checklists, study tips and short activities to help students revise effectively. * the widest coverage with in-depth analysis of character, themes, language, context and style helping students reach an excellent understanding of the text.

GCSE Computer Science for OCR Student Book David Waller 2016-04-21 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.

New GCSE English Language AQA Workbook - For the Grade 9-1 Course (Includes Answers) CGP Books 2015-08-10

Making it as a Teacher Victoria Hewett 2019-05-10 Teaching is a delightfully rewarding, wonderfully enlightening and diverse career. Yet, at present, teacher recruitment and retention are in crisis, with some of the most at risk of leaving the profession being those in their early years of teaching. Making it as a Teacher offers a variety of tips, anecdotes, real-life examples and practical advice to help new teachers survive and thrive through the first 5 years of teaching, from the first-hand experiences of a teacher and middle leader. Divided into thematic sections, Making It, Surviving and Thriving, the book explores the issues and challenges teachers may face, including: Lesson planning, marking and feedback Behaviour and classroom management Work-life balance Progression, CPD and networking With the voices of teaching professionals woven throughout, this is essential reading for new teachers, those undertaking initial teacher training, QT mentors and other teaching staff that support new teachers in the early stages of their career.

Oxford Revise: AQA GCSE Physics Revision and Exam Practice Helen Reynolds 2020-10-08 Based on principles of cognitive science, this three-step approach to effective revision combines knowledge, retrieval and interleaving, and extensive exam-style practice to help students master knowledge and skills for GCSE success. UK schools save 50% off the RRP! Discount will be automatically applied when you order on your school account.

Mobile 3D Graphics Kari Pulli 2007-11-19 Graphics and game developers must learn to program for mobility. This book will teach you how. "This book - written by some of the key technical experts...provides a comprehensive but practical and easily understood introduction for any software engineer seeking to delight the consumer with rich 3D interactive experiences on their phone. Like the OpenGL ES and M3G standards it covers, this book is destined to become an enduring standard for many years to come." - Lincoln Wallen, CTO, Electronic Arts, Mobile "This book is an escalator, which takes the field to new levels. This is especially true because the text ensures that the topic is easily accessible to everyone with some background in computer science...The foundations of this book are clear, and the authors are extremely knowledgeable about the subject. - Tomas Akenine-M ller, bestselling author and Professor of Computer Science at Lund University "This book is an excellent introduction to M3G. The authors are all experienced M3G users and developers, and they do a great job of conveying that experience, as well as plenty of practical advice that has been proven in the field." - Sean Ellis, Consultant Graphics Engineer, ARM Ltd The exploding popularity of mobile computing is undeniable. From cell phones to portable gaming systems, the global demand for multifunctional mobile devices is driving amazing hardware and software developments. 3D graphics are becoming an integral part of these ubiquitous devices, and as a result, Mobile 3D Graphics is arguably the most rapidly advancing area of the computer graphics discipline. Mobile 3D Graphics is about writing real-time 3D graphics applications for mobile devices. The programming interfaces explained and demonstrated in this must-have reference enable dynamic 3D media on cell phones, GPS systems, portable gaming consoles and media players. The text begins by providing thorough coverage of background essentials, then presents detailed hands-on examples, including extensive working code in both of the dominant mobile APIs, OpenGL ES and M3G. C/C++ and Java Developers, graphic artists, students, and enthusiasts would do well to have a programmable mobile phone on hand to try out the techniques described in this book. The authors, industry experts who helped to develop the OpenGL ES and M3G standards, distill their years of accumulated knowledge within these pages, offering their insights into everything from sound mobile design principles and constraints, to efficient rendering, mixing 2D and 3D, lighting, texture mapping, skinning and morphing. Along the way, readers will benefit from the hundreds of included tips, tricks and caveats. Written by experts at Nokia whose workshops at industry conferences are blockbusters The programs used in the examples are featured in thousands of professional courses each year

A Level Computer Science for Aqa Unit 1 Kevin Roy Bond 2017-02-09 This textbook covers sections 4.1 to 4.4 of AQA's A Level Computer Science specification for first teaching from September 2015. These sections cover the fundamentals of programming, data structures, algorithms, and the theory of computation. Fundamentals of programming: data types, programming concepts, arithmetic operations, relational operators, Boolean operations, constants and varibale, string-handling, random number generatio, exception handling, subroutines, parameters of subroutines, returning a value/values from a subroutine, local variables, global variables, role of stack frames in subroutine calls, recursive techniques, procedural-oriented programming, object-oriented programming. Fundamentals of data structures: data structures, single- and multi-dimensional arrays, fileds, records and files, abstract data types, queues, stacks, graphs, trees, hash tables, dictionaries, vectors. Fundamentals of algorithms: graph traversal (breadth-first, depth-first), tree-traversal (pre-order, in-order, post-order), Reverse Polish, searching algorithms (linear search, binary search, binary tree search), sorting algorithms(bubble sort, merge sort), optimisation algorithms (Dijkstra's shortest path algorithm). Theory of computation: abstraction and automation, following and writing algorithms, information hiding, procedural abstraction, functional abstraction, data abstraction, problem abstraction/reduction, decomposition, composition, automation, regular languages, finitest state machine with and without output, maths for regular expressions, regular expressions, regular language, context-free languages (BNF, syntax diagrams), classification of algorithms, maths for understanding Big-O notation, order of complexity, limits of computation, classification of algorthmic problems, computatble and non-computatable problems, halting problem, Turing machine.

75 Long Answer Questions in GCSE Science Primrose Kitten 2018-03-11 Answering six mark questions in your GCSE is much more than just writing down six correct things. There is a skill to answering them that needs to be practiced. Here I have written 25 questions on each subject, given you the answers and guided you through how to answer to get full marks. The more you practice, the more confident you'll be in the exam! Example Question58 - Renewable and Non-Renewable Energy SourcesIn June 2017, for the first time, over 50% of energy in the UK was supplied by renewable energy. The UK government is leading a drive to promote the increased used if renewable energy sources for generating electricity. Evaluate the use of renewable and non-renewable energy sources.Planning.... * Evaluate give good points, bad points your option and justify your opinion* You can use a table for planning* What are the good points (aim for at least 2)?* What are the bad points (aim for at least 2)?* What is your opinion?* Explain why you have that opinion* Don't stress too much about your opinion, the examiner is never going to cross-examine you on this, just make one up Table of Contents* Exam command words * Glossary of exam command words * How to answer 6-mark questions * How the examiners will mark your work * Biology * 1 - Drugs * 2 - Respiration * 3 - Genetic Engineering * 4 - Plant Growth * 5 - Digestive System * 6 - Reflex Arcs * 7 - Leaves * 8 - Pathogens * 9 - Genetic Testing * 10 - Contraception * 11 - IVF * 12 - Defence Against Pathogens * 13 - Drugs in Sport * 14 - Cloning * 15 - Stem Cells * 16 - Menstrual Cycle * 17 - IVF * 18 - Cells * 19 - Enzymes * 20 - Homeostasis * 21 - Blood * 22 - Genetic Disorders * 23 - Enzymes * 24 - Hormonal Contraception. * 25 - Plants * Chemistry * 26 - Covalent bonding * 27 - Rates of Reaction (concentration) * 28 - Atoms and Ions * 29 - Magnesium Chloride * 30 - Reactivity series * 31 - Extracting Copper * 32 - Rates of Reaction (Temperature) * 33 - Water * 34 - Properties of mystery white powders * 35 - Fractional Distillation * 36 - Diamond and Graphite * 37 - Le Chatelier's Principle * 38 - Evolution of Atmosphere * 39 - Life Cycle Assessment * 40 - Metals * 41 - Carbon in the Atmosphere * 42 - Reactivity in Group 1 and Group 7 * 43 - States of Matter * 44 - Rate of Reaction (surface area) * 45 - The Periodic Table * 46 - Models of the Atom * 47 -Group 1 * 48 - Group 7 * 49 - Aluminium Electrolysis * 50 - Acids and Alkalis * Physics * 51 - Generators * 52 - Radioactivity * 53 - Journeys * 54 - Thermistors * 55 - Nuclear Power * 56 - Isotopes * 57 - Forces * 58 - Renewable and Non-Renewable Energy Sources * 59 -AC/DC * 60 - Surfaces * 61 - Car Safety * 62 - Climate Change * 63 - Heating * 64 - National Grid * 65 -Energy Changes * 66 - Diodes * 67 - Circuits * 68 - Waves * 69 - Electromagnetic Spectrum * 70 - Loudspeakers * 71 - Waves * 72 - Newton's Laws of Motion * 73 - Atmosphere * 74 - Weight and Mass * 75 - Electrical Safety * Answers

Perfect ICT Every Lesson Mark Anderson 2013-09-30 Technology is at the heart of learning for all of us and every teacher needs to be using social media, mobile technologies and transformational digital learning opportunities as an integral part of their range of strategies for helping students make the maximum progress. In this book in the 'Perfect' series, Mark Anderson, the ICT Evangelist, takes the technology-relatedelements of all the recent subject reports from Ofsted and using them offers clear and practical strategies that are proven to be successful in classrooms and offers up ideas for how they can be turned into a daily reality for all teachers.

Thing Explainer Randall Munroe 2017-10-05 From the No. 1 bestselling author of What If? - the man who created xkcd and explained the laws of science with cartoons - comes a series of brilliantly simple diagrams ('blueprints' if you want to be complicated about it) that show how important things work: from the nuclear bomb to the biro. It's good to know what the parts of a thing are called, but it's much more interesting to know what they do. Richard Feynman once said that if you can't explain something to a first-year student, you don't really get it. In Thing Explainer, Randall Munroe takes a quantum leap past this: he explains things using only drawings and a vocabulary of just our 1,000 (or the ten hundred) most common words. Many of the things we use every day - like our food-heating radio boxes ('microwaves'), our very tall roads ('bridges'), and our computer rooms ('datacentres') - are strange to us. So are the other worlds around our sun (the solar system), the big flat rocks we live on (tectonic plates), and even the stuff inside us (cells). Where do these things come from? How do they work? What do they look like if you open them up? And what would happen if we heated them up, cooled them down, pointed them in a different direction, or pressed this button? In Thing Explainer, Munroe gives us the answers to these questions and many, many more. Funny, interesting, and always understandable, this book is for anyone -- age 5 to 105 -- who has ever wondered how things work, and why.

Making Data Smarter with IBM Spectrum Discover: Practical AI Solutions Ivaylo B. Bozhinov 2020-10-19 More than 80% of all data that is collected by organizations is not in a standard relational database. Instead, it is trapped in unstructured documents, social media posts, machine logs, and so on. Many organizations face significant challenges to manage this deluge of unstructured data, such as the following examples: Pinpointing and activating relevant data for large-scale analytics Lacking the fine-grained visibility that is needed to map data to business priorities Removing redundant, obsolete, and trivial (ROT) data Identifying and classifying sensitive data IBM® Spectrum Discover is a modern metadata management software that provides data insight for petabyte-scale file and Object Storage, storage on-premises, and in the cloud. This software enables organizations to make better business decisions and gain and maintain a competitive advantage. IBM Spectrum® Discover provides a rich metadata layer that enables storage administrators, data stewards, and data scientists to efficiently manage, classify, and gain insights from massive amounts of unstructured data. It improves storage economics, helps mitigate risk, and accelerates large-scale analytics to create competitive advantage and speed critical research. This IBM Redbooks® publication presents several use cases that are focused on artificial intelligence (AI) solutions with IBM Spectrum Discover. This book helps storage administrators and technical specialists plan and implement AI solutions by using IBM Spectrum Discover and several other IBM Storage products.

Too Crowded Lena Podesta 2021-04-06 Gil the goldfish lives in a fishbowl with 138 pebbles—he counts them every day—and a plastic castle. It's too crowded! When leaves his fishbowl in search of open spaces, he finds a loud, dangerous, dry land that is full of many interesting creatures but is not quite suitable for a fish. Thank goodness for Turtle, the new friend Gil meets in the not-so-great outdoors! Will Gil and Turtle make it back to the fishbowl, and will Gil make peace with his home sweet home?

Edexcel GCSE (9-1) Physics Student Book Mark Levesley 2016-06-01 Series Editor: Mark Levesley Pearson's resources are designed to be simple, inclusive and inspiring and to support students in studying for Edexcel GCSE (9-1) Physics.

Love to Teach Kate Jones 2019-01-18 Love To Teach: Research and Resources for every classroom is an exciting book that combines the latest educational research with examples of what this can look like in the classroom. Filled with research-informed ideas to support all teachers and leaders in both Primary and Secondary this book would be great for NQTs to more experienced teachers and leaders alike. The educational research is presented in a format which is accessible, helpful and informative and will help inform educators about cutting-edge research in practical and applicable ways. The practical resources are easily adaptable and ready to be implemented in any classroom and are grounded in Kate's own classroom practice. 'Written with the same passion, reflection and drive that runs through everything Kate does, Love To Teach is a real gem. Kate explores a huge range of practical pick-up-and-use strategies rooted deeply in educational research. The book is an equal balance between thought-provoking and extremely useful. Love to Teach is a great resource for all teachers who are committed to improving their practice and increasing their impact upon the futures of the young people they teach.' -- Sarah Findlater Secondary Principal at Gems First Point School Dubai. Author and Series Editor of the Bloomsbury CPD Library @msfindlater

Gcse Mathematics Peter Bland 2016-06-17 This workbook is written in the style of the Edexcel GCSE Grades 9-1 1MA1 question types. They are arranged by topic so study and revision are made much easier. Model answers showing working with explanations are available for purchase at www.bland.in

Text, Speech, and Dialogue Petr Sojka 2020-09-01 This book constitutes the proceedings of the 23rd International Conference on Text, Speech, and Dialogue, TSD 2020, held in Brno, Czech Republic, in September 2020.* The 54 full papers presented in this volume were carefully reviewed and selected from 110 submissions. They were organized in topical sections named text, speech, and dialogue. The book also contains 3 invited talks. * The conference was held virtually due to the COVID-19 pandemic.

The Age of Surveillance Capitalism Shoshana Zuboff 2019-01-15 The challenges to humanity posed by the digital future, the first detailed examination of the unprecedented form of power called "surveillance capitalism," and the quest by powerful corporations to predict and control our behavior. In this masterwork of original thinking and research, Shoshana Zuboff provides startling insights into the phenomenon that she has named surveillance capitalism. The stakes could not be higher: a global architecture of behavior modification threatens human nature in the twenty-first century just as industrial capitalism disfigured the natural world in the twentieth. Zuboff vividly brings to life the consequences as surveillance capitalism advances from Silicon Valley into every economic sector. Vast wealth and power are accumulated in ominous new "behavioral futures markets," where predictions about our behavior are bought and sold, and the production of goods and services is subordinated to a new "means of behavioral modification." The threat has shifted from a totalitarian Big Brother state to a ubiquitous digital architecture: a "Big Other" operating in the interests of surveillance capital. Here is the crucible of an unprecedented form of power marked by extreme concentrations of knowledge and free from democratic oversight. Zuboff's comprehensive and moving analysis lays bare the threats to twenty-first century society: a controlled "hive" of total connection that seduces with promises of total certainty for maximum profit -- at the expense of democracy, freedom, and our human future. With little resistance from law or society, surveillance capitalism is on the verge of dominating the social order and shaping the digital future -- if we let it.

AQA A Level Science - AQA A Level Physics Year 2 Student Book Lynn Pharaoh 2016-05-31 Covering A-level Year 2 for the 2015 AQA specification, this Student Book combines the most comprehensive explanation with features that build skills in practical work, maths and evaluation. With a clear path of progress, it prepares students for the demands of A-level and beyond.

City of the Beasts Isabel Allende 2021-01-05 A search for the Beast, a Yeti-like creature within the heart of the Amazon, becomes a quest for self-discovery in this young adult coming-of-age story filled with international adventure, rich mythology, and magical realism from globally celebrated novelist Isabel Allende. Fifteen-year-old Alexander Cold has the chance to take the trip of a lifetime. Parting from his family and ill mother, Alexander joins his fearless grandmother, a magazine reporter for International Geographic, on an expedition to the dangerous, remote world of the Amazon. Their mission, along with the others on their team—including a celebrated anthropologist, a local guide and his young daughter Nadia, and a doctor—is to document the legendary Yeti of the Amazon known as the Beast. Under the dense canopy of the jungle, Alexander is amazed to discover much more than he could have imagined about the hidden worlds of the rain forest. Drawing on the strength of the jaguar, the totemic animal Alexander finds within himself, and the eagle, Nadia's spirit guide, both young people are led by the invisible People of the Mist on a thrilling and unforgettable journey to the ultimate discovery.

Edexcel GCSE (9-1) Computer Science Charles Chris 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.

Multimodal Brain Tumor Segmentation and Beyond Bjoern Menze 2021-08-10

Kirk Bizley 2017-11-13 Target success in PE with this proven formula for effective, structured revision; key content coverage is combined with exam-style tasks and practical tips to create a revision guide that students can rely on to review, strengthen and test their knowledge. With My Revision Notes, every student can: Plan and manage a successful revision programme using the topic-by-topic planner Consolidate subject knowledge by working through clear and focused content coverage Test understanding and identify areas for improvement with regular 'Now Test Yourself' tasks and answers Improve exam technique through practice questions, expert tips and examples of typical mistakes to avoid Get exam ready with extra quick quizzes and answers to the practice questions available online

WJEC GCSE Chemistry Adrian Schmit 2016-11-14 Exam Board: WJEC Level: GCSE Subject: Chemistry First Teaching: September 2016 First Exam: June 2018 Welsh edition. Expand and challenge your students' knowledge and understanding of Chemistry with this textbook that guides students through each topic within the new curriculum; produced by a trusted author team and the established WJEC GCSE Science publisher. - Test understanding and reinforce learning with differentiated Test Yourself questions, Discussion points, exam-style questions and useful chapter summaries. - Provide support for all required practicals along with extra tasks for broader learning. - Support the mathematical and Working scientifically requirements of the new specification with opportunities to develop these skills throughout. - Supports the separate sciene Chemisrty and is also suitable to support the WJEC GCSE Science (Double Award) qualification.

Contentious Kwangju Gi-Wook Shin 2003 One of the largest political protests in contemporary Korean history, the May 1980 Kwangju Uprising still exerts a profound, often contested, influence in Korean society. Through a deft combination of personal reflections and academic analysis, Contentious Kwangju offers a comprehensive examination of the multiple, shifting meanings of this seminal event and explains how the memory of Kwangju has affected Korean life from politics to culture. In keeping with the book's title, the essays offer competing interpretations of the Kw.

Instrument Engineers' Handbook, Volume 3 Bela G. Liptak 2016-04-19 Instrument Engineers' Handbook – Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants, this book details the wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power.

Brian Arnold 2009 "Written specifically for Edexcel's new IGCSE Physics (from 2009) qualification in a clear and engaging style that students will find easy to understand. This book includes a wide range of activities and exercises for self-study, as well as examination style questions and summaries to aid revision."--Publisher's description.

Cambridge IGCSE Computer Science David Watson 2015-01-30 Endorsed by Cambridge International Examinations. Develop your students computational thinking and programming skills with complete coverage of the latest syllabus from experienced examiners and teachers. - Follows the order of the syllabus exactly, ensuring complete coverage - Introduces students to self-learning exercises, helping them learn how to use their knowledge in new scenarios Accompanying animation files of the key concepts are available to download for free online. See the Quick Links to the left to access. This book covers the IGCSE (0478), O Level (2210) and US IGCSE entry (0473) syllabuses, which are for first examination 2015. It may also be a useful reference for students taking the new Computer Science AS level course (9608).

The Gendered Brain Gina Rippon 2020-02-13 Barbie or Lego? Reading maps or reading emotions? Do you have a female brain or a male brain? Or is that the wrong question? On a daily basis we face deeply ingrained beliefs that our sex determines our skills and preferences, from toys and colours to career choice and salaries. But what does this mean for our thoughts, decisions and behaviour? Using the latest cutting-edge neuroscience, Gina Rippon unpacks the stereotypes that bombard us from our earliest moments and shows how these messages mould our ideas of ourselves and even shape our brains. Rigorous, timely and liberating, The Gendered Brain has huge repercussions for women and men, for parents and children, and for how we identify ourselves. 'Highly accessible... Revolutionary to a glorious degree' Observer

Joseph Dain 2019-10-01 This IBM® Redpaper publication provides a comprehensive overview of the IBM Spectrum® Discover metadata management software platform. We give a detailed explanation of how the product creates, collects, and analyzes metadata. Several in-depth use cases are used that show examples of analytics, governance, and optimization. We also provide step-by-step information to install and set up the IBM Spectrum Discover trial environment. More than 80% of all data that is collected by organizations is not in a standard relational database. Instead, it is trapped in unstructured documents, social media posts, machine logs, and so on. Many organizations face significant challenges to manage this deluge of unstructured data such as: Pinpointing and activating relevant data for large-scale analytics Lacking the fine-grained visibility that is needed to map data to business priorities Removing redundant, obsolete, and trivial (ROT) data Identifying and classifying sensitive data IBM Spectrum Discover is a modern metadata management software that provides data insight for petabyte-scale file and Object Storage, storage on premises, and in the cloud. This software enables organizations to make better business decisions and gain and maintain a competitive advantage. IBM Spectrum Discover provides a rich metadata layer that enables storage administrators, data stewards, and data scientists to efficiently manage, classify, and gain insights from massive amounts of unstructured data. It improves storage economics, helps mitigate risk, and accelerates large-scale analytics to create competitive advantage and speed critical research.

Jim Clark 2000-01-01 Suitable for all examination specifications for students over 16, this friendly and reliable guide leads students through examples of each problem.

EDEXCEL GCSE (9-1) COMPUTER SCIENCE. ANN. SELBY WEIDMANN (CYNTHIA. WALLER, DAVID.) 2020

Grammar for GCSE English (9-1): Crafting Brilliant Sentences Teacher Pack Lindsay Skinner 2019-04 Exam Board: AQA, Edexcel, OCR, WJEC, EduqasLevel & Subject: Key Stage 3 English, GCSE English Language, GCSE English LiteratureFirst teaching: September 2015 First exams: June 2017 A systematic approach to teaching sentence grammar to help students craft successful narrative, descriptive and discursive writing for GCSE. Improve accuracy and help take your students' writing into the highest mark bands with this practical teacher pack. - Provides a consistent approach for your department, working through each element of the sentence and enabling you to target areas of weakness.- Help students understand and then apply their knowledge: each chapter focuses first on understanding an element of the sentence and secondly on using it for effect.- Craft writing for GCSE with lessons on narrative, description and discursive texts, including analytical writing for Language and Literature.- Support progress: further intervention activities help students to embed their learning, while a progress-tracking spreadsheet allows you to monitor the results.- Build your confidence in teaching grammar with detailed teacher notes, suggested answers and ready-to-use worksheets and PowerPoints.- Adapt the resources to your needs: the flexible format means lessons can be taught as a full programme or dipped into and edited to fit your own schemes of work.- Expert support, tried and tested in the classroom.

Periodic Tales Hugh Aldersey-Williams 2012-05 The phenomenal Sunday Times bestseller Periodic Tales by Hugh Andersey-Williams, packed with fascinating stories and unexpected information about the building blocks of our universe. Everything in the universe is made of them, including you. Like you, the elements have personalities, attitudes, talents, shortcomings, stories rich with meaning. Here you'll meet iron that rains from the heavens and noble gases that light the way to vice. You'll learn how lead can tell your future while zinc may one day line your coffin. You'll discover what connects the bones in your body with the Whitehouse in Washington, the glow of a streetlamp with the salt on your dinner table. Unlocking their astonishing secrets and colourful pasts, Periodic Tales is a voyage of wonder and discovery, showing that their stories are our stories, and their lives are inextricable from our own. 'Science writing at its best. A fascinating and beautiful literary anthology, bringing them to life as personalities. If only chemistry had been like this at school. A rich compilation of delicious tales'Matt Ridley, Prospect 'A love letter to the chemical elements. Aldersey-Williams is full of good stories and he knows how to tell them well'Sunday Telegraph 'Great fun to read and an endless fund of unlikely and improbable anecdotes'Financial Times 'The history, science, art, literature and everyday applications of all the elements from aluminium to zinc' The Times Hugh Aldersey-Williams studied natural sciences at Cambridge. He is the author of several books exploring science, design and architecture and has curated exhibitions at the Victoria and Albert Museum and the Wellcome Collection. He lives in Norfolk with his wife and son.

Andrew Smith 2006-04-04 In 1999, Andrew Smith was interviewing Charlie Duke, astronaut and moon walker, for the Sunday Times. During the course of the interview, which took place at Duke's Texan home, the telephone rang and Charlie left the room to answer it. When he returned, some twenty minutes later, he seemed visibly upset. It seemed that he'd just heard that, the previous day, one of his fellow moon walkers, the astronaut Pete Conrad, had died. The more Charlie spoke the more Andrew realised that his grief was something more than the mere fact of losing a friend. 'Now theres only nine of us,' he said. Only nine. Which meant that, one day not long from now, there would be none, and when that day came, no one on earth would have known the giddy thrill of gazing back at us from the surface of the moon. The thought shocked Andrew, and still does. Moondust is his attempt to understand why. The Apollo moon programme has been called the last optimistic act of the 20th Century. Over a strange three year period between 1969 and 1972, twelve men made the longest and most eccentric of all journeys, and all were indelibly marked by it. In Moondust Andrew sets out to interview all the remaining astronauts who walked on the moon, and to find out how their lives were changed for ever by what had happened. 'Where do you go after you've been to the moon?' In addition to this question that would prove hugely troubling to many of the returned astronauts, they also had to deal with the fantasies of faceless millions at their backs, for this was the first truly global media event. The walkers would forever be caught between the gravitational pull of the moon and the earth's collective dreaming.

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