

Pixl Higher Maths Papers

GCSE Physics Edexcel Revision Guide (with online edition)

Statistical methods are a key part of data science, yet very few data scientists have any formal statistics training. Courses and books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and have some exposure to statistics, this quick reference bridges the gap in an accessible, readable format. With this book, you'll learn: Why exploratory data analysis is a key preliminary step in data science How random sampling can reduce bias and yield a higher quality dataset, even with big data How the principles of experimental design yield definitive answers to questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that "learn" from data Unsupervised learning methods for extracting meaning from unlabeled data

Develop your grade 7 students sentence editing, punctuation, grammar, vocabulary, word study, and reference skills using 180 focused 10- to 15-minute daily activities.

Improve exam skills, check understanding and familiarise students with the types of questions they will face in the OCR GCSE Computer Science exams. This photocopiable pack of exam-style questions, sample answers and mark schemes can be used flexibly for mocks, classwork or homework. Reinforce the skills and knowledge that students need for their exams, selecting exam question worksheets to focus on tricky topics or revise more broadly across the course Pick and choose whether you assign the questions in test conditions or use them alongside the sample answers, encouraging students to reflect on their responses Help students understand what a 'good' answer looks like, sharing sheets of sample answers with examiner comments and mark schemes Mark students' work more easily, consulting the examiner comments and mark schemes yourself or giving them to students for self/peer-marking activities

Inspire, motivate and give confidence to your students with AQA PE for GCSE. This reliable and accessible textbook is structured to match the specification exactly and will provide your students with the knowledge they need, while giving them the opportunity to build skills through appropriate activities. Features will include: - Key questions to direct thinking and help students focus on the key points - Summaries to aid revision and help all students access the main points - Diagrams to aid understanding - Attractive layout for a truly accessible textbook - Definition of key terms - again to aid and consolidate understanding of technical vocabulary and concepts - Activities to build conceptual understanding and sound knowledge and understanding, analysis, evaluation and application skills.

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-related elements 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.

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.

With a foreword by Tim Rice, this book will change the way you see the world. Why is it better to buy a lottery ticket on a Friday? Why are showers always too hot or too cold? And what's the connection between a rugby player taking a conversion and a tourist trying to get the best photograph of Nelson's Column? These and many other fascinating questions are answered in this entertaining and highly informative book, which is ideal for anyone wanting to remind themselves – or discover for the first time – that maths is relevant to almost everything we do. Dating, cooking, travelling by car, gambling and even life-saving techniques have links with intriguing mathematical problems, as you will find explained here. Whether you have a PhD in astrophysics or haven't touched a maths problem since your school days, this book will give you a fresh understanding of the world around you.

Considering studying mathematics at university? Wondering whether a mathematics degree will get you a good job, and what you might earn? Want to know what it's actually like to study mathematics at degree level? This book tells you what you need to know. Studying any subject at degree level is an investment in the future that involves significant cost. Now more than ever, students and their parents need to weigh up the potential benefits of university courses. That's where the Why Study series comes in. This series of books, aimed at students, parents and teachers, explains in practical terms the range and scope of an academic subject at university level and where it can lead in terms of careers or further study. Each book sets out to enthuse the reader about its subject and answer the crucial questions that a college prospectus does not.

The new edition of Pearson Edexcel GCSE (9-1) Mathematics Higher Student Book 1 develops reasoning, fluency and problem-solving to boost students' confidence and give them the best preparation for GCSE study. Purposefully updated based on feedback from thousands of teachers and students, as well as academic research and impact studies Bolsters preparation for GCSE with new questions that reflect the latest exams and a format that seamlessly aligns with our GCSE Maths courses Shown to help GCSE students master maths with confidence with a UK-specific approach that draws upon global best practices and cutting-edge research Tried-and-tested differentiation with a unique unit structure and improved pacing to support every student's progress Extra skills-building support, problem-solving, and meaningful practice to consolidate learning and deepen understanding New additions to boost progression and post-GCSE study such as 'Future skills questions' and 'Working towards A level' features

What is an imaginary number? Can two parallel lines ever meet? How can maths help us predict the future? Charting the development of maths around the world from Babylon to Bletchley Park, this book explores big questions like these and explains how the answers help us understand everything from patterns in nature to artificial intelligence. Written in clear English, The Maths Book is packed with short, pithy explanations that cut through the jargon, step-by-step diagrams that untangle knotty theories, memorable quotes, and witty illustrations that play with our ideas about numbers. This diverse and inclusive account of mathematics will have something for everybody, including the maths behind world economies and espionage. But it also traces the history of maths, from ancient ideas such as magic squares and the abacus to

modern cryptography, fractals, and the final proof of Fermat's Last Theorem. Continuing the "Big Ideas" series' trademark combination of authoritative, clear text and bold graphics, The Maths Book uses an innovative visual approach to make the subject accessible to everyone, whether you're an avid student or just curious about maths.

Approach your WJEC/Eduqas GCSE 9-1 English Language exam with confidence using this write-in workbook full of annotated exam-style questions, sample answers and exam tips. Step-by-step guidance will help you to improve your exam technique so that your answers are clear, relevant and well-developed. Use the carefully chosen questions to get used to the kind of questions you can expect to see in your exam and the different ways that you should approach them. The easy to understand advice will help you to: - Understand what exam questions are asking you to do in each question - Evaluate, develop and explain your personal responses to extracts - Remember to spend the right amount of time on each question and avoid other common mistakes - Show examiners that you understand key terms and techniques

This Maths Revision and Practice range contains clear and accessible explanations of all the GCSE content, with lots of practice opportunities for each topic throughout the book. Based on new research that proves repeated practice is more effective than repeated study, this book is guaranteed to help you achieve the best results. There are clear and concise revision notes for every topic covered in the curriculum, plus seven practice opportunities to ensure the best results. Includes: - quick tests to check understanding - end-of-topic practice questions - topic review questions later in the book - mixed practice questions at the end of the book - free Q&A flashcards to download online - an ebook version of the revision guide - more topic-by-topic practice and a complete exam-style paper in the added workbook Suitable for the new AQA Maths GCSE.

Level: KS2 Subject: Maths Suitable for 2020 SATs Boost children's test-taking confidence by using the realistic SATs-style questions included in this Key Stage 2 Maths SATs Question Book by Collins. Specifically designed to get children ready for the Maths Reasoning SAT (Papers 2 and 3), this book covers all the content and skills that children will be tested on. Regular progress tests are included throughout to check understanding every step of the way. Answers and marking schemes are also provided to ensure children are prepared for success ahead of their SATs. For extra SATs practice, try our KS2 Arithmetic SATs Question Book (9780008201623).

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

The Extending Knowledge and Skills series is a fresh approach to A Level Psychology, designed for greater demands of the new AQA specification and assessment, and especially written to stretch and challenge students aiming for higher grades. Dealing with the compulsory topic of AQA's Paper 3: Issues and Debates, this book is deliberately laid out with the assessment objectives in mind, from AO1: Knowledge and understanding material, followed by AO2: Application material, to AO3: Evaluation and analysis material. Providing the most in-depth, accessible coverage available of individual topics in Paper 3, the text is packed full of pedagogical features, including: Question Time features to ensure that the reader is consistently challenged throughout the book. New research sections clearly distinguished within each chapter to ensure readers have access to the most cutting-edge material. A clear focus on the assessment objectives for the Paper topic to ensure readers know when and where to apply knowledge. The use of example answers with examiner-style comments to provide greater insight into how to/how not to answer exam questions. An engaging, relevant and challenging text that broadens student understanding beyond that of the average textbook, this is the essential companion for any student taking the AQA A level Paper 3 in Psychology.

COMPREHENSIVE COVERAGE OF NONLINEAR PROGRAMMING THEORY AND ALGORITHMS, THOROUGHLY REVISED AND EXPANDED Nonlinear Programming: Theory and Algorithms—now in an extensively updated Third Edition—addresses the problem of optimizing an objective function in the presence of equality and inequality constraints. Many realistic problems cannot be adequately represented as a linear program owing to the nature of the nonlinearity of the objective function and/or the nonlinearity of any constraints. The Third Edition begins with a general introduction to nonlinear programming with illustrative examples and guidelines for model construction. Concentration on the three major parts of nonlinear programming is provided: Convex analysis with discussion of topological properties of convex sets, separation and support of convex sets, polyhedral sets, extreme points and extreme directions of polyhedral sets, and linear programming Optimality conditions and duality with coverage of the nature, interpretation, and value of the classical Fritz John (FJ) and the Karush-Kuhn-Tucker (KKT) optimality conditions; the interrelationships between various proposed constraint qualifications; and Lagrangian duality and saddle point optimality conditions Algorithms and their convergence, with a presentation of algorithms for solving both unconstrained and constrained nonlinear programming problems Important features of the Third Edition include: New topics such as second interior point methods, nonconvex optimization, nondifferentiable optimization, and more Updated discussion and new applications in each chapter Detailed numerical examples and graphical illustrations Essential coverage of modeling and formulating nonlinear programs Simple numerical problems Advanced theoretical exercises The book is a solid reference for professionals as well as a useful text for students in the fields of operations research, management science, industrial engineering, applied mathematics, and also in engineering disciplines that deal with analytical optimization techniques. The logical and self-contained format uniquely covers nonlinear programming techniques with a great depth of information and an abundance of valuable examples and illustrations that showcase the most current advances in nonlinear problems.

"Free access to instantly scored online practice!"--Cover.

UK schools pay 50% of the RRP! Discount automatically applied when you order on your school account. Straightforward, visual and accessible: Oxford Revise AQA GCSE Maths offers no-fuss Revision Guides and Workbooks. Every topic is covered on a single page, providing a simple, pick-up-and-go solution. Perfect for GCSE Maths students everywhere.

Exam Board: WJEC Level: GCSE Subject: Science First Teaching: September 2016 First Exam: Summer 2018 Target success in Science 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 Please note that some of the quizzes from the WJEC GCSE My Revision Notes series are also used in the WJEC GCSE Teaching and Learning resources.

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role and use of mobile devices, brain–computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors’ “beautiful questions” and how they develop the subsequent “what if” and “how” questions, offering readers food for thought and whetting their appetite for further research by the same authors.

Exam Board: AQA Level: A-level Subject: Sociology First teaching: September 2015 First exam: June 2017 Need more exam practice? Letts will get you through your A-Level exam.

UK schools pay just 50% of the RRP! Discount automatically applied when ordering on your school account. Straightforward, visual, accessible: Oxford Revise AQA GCSE Maths offers no-fuss Revision Guides and Workbooks. Every topic is covered on a single page, providing a simple pick-up-and-go solution. Perfect for GCSE Maths students everywhere.

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.

GCSE Mathematics for the Grade 9-1 Course The Revision Guide, Higher Level Oxford Revise: AQA GCSE (9-1) Maths Foundation Revision Guide

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.

Revision is serious business... and we're serious about revision. Inside this Revision Guide you'll find everything you need to succeed in the new GCSE 9-1 Maths Higher examinations. It is packed full of tips and tasks to make sure you really know and understand the key revision points. Written by Maths experts and combined with cutting edge technology to help you revise on-the-go, you can: * Use the free, personalised digital revision planner and get stuck into the quick tests to check your understanding * Download our free revision cards which you can save to your phone to help you revise on the go * Implement 'active' revision techniques - giving you lots of tips and tricks to help the knowledge sink in Snap it! Read it, snap it on your phone, revise it...helps you retain key facts Nail it! Examiner tips to help you get better grades Stretch it! Support for the really tough stuff that will get you higher grades The perfect companion... GCSE 9-1 Maths Higher Practice Book * 100s of practice questions * Exam techniques explained * Matches 9-1 specification

In this book, teachers from a variety of backgrounds reflect upon their journeys into and within teaching to discuss the impact of their diverse experiences on the ways in which they teach. The authors adopt a variety of autoethnographic approaches in telling stories of transition and profound transformation as they each discuss how certain events in their lives have shaped their professional identities and methods of teaching. In telling their stories they also tell stories of the culture and process of education. This offers the opportunity to consider the narratives as examples of how individuals and groups respond in different ways to institutional and national policies on education. In these chapters, the authors offer illumination from a number of perspectives, of how practitioners of education make meaning of their lives and work in our changing times. By capturing these personal stories, this book will inform and support readers who are studying to become teachers and those already working in education by developing their understanding and empathy with the role. Autoethnography can develop self-knowledge and understanding in the reader and writer of such texts, offering unique insights and individual ways of being that will benefit students and staff in a range of educational settings. This book values the telling and sharing of stories as a strategy for enabling teachers to learn from one another and help them to feel more supported. The book will be useful for teachers and teacher educators, students of education, and all researchers interested in autoethnography and self-narrative.

In 2011, I began creating online tutorial videos on Youtube, with a vision to share my GCSE expertise in English language and literature. As I write, these videos have been viewed over 10 million times across 214 different nations. My GCSE English Youtube channel has over 60,000 subscribers. To accompany these videos, I have published over 20 revision guide eBooks-one of which you are currently looking at! My guide to the previous GCSEs in English language and literature sat at the top of the Amazon bestseller's list for over 45 weeks and achieved huge acclaim; this book aims to build on those strengths. In this ebook, you'll receive detailed guidance on every question in the AQA GCSE English Language exams. Please note that this ebook is not endorsed by or affiliated to any exam boards; I am simply an experienced teacher using my expertise to help students. However, if you read some of the 100+ reviews for this guide, you will see that it has already helped students, teachers and parents across the UK. As an extra bonus, this ebook contains links to five special video tutorials which are only available to those who purchase this guide. These links appear later in the text. I hope you enjoy the ebook. You should also purchase the accompanying eBook which covers the English Literature exams.

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