

BTEC National Applied Science Revision Workbook (REVISE BTEC Nationals In Applied Science)

This compendium of essential formulae, definitions, tables and general information provides the mathematical information required by engineering students, technicians, scientists and professionals in day-to-day engineering practice. A practical and versatile reference source, now in its fifth edition, the layout has been changed and streamlined to ensure the information is even more quickly and readily available - making it a handy companion on-site, in the office as well as for academic study. It also acts as a practical revision guide for those undertaking degree courses in engineering and science, and for BTEC Nationals, Higher Nationals and NVQs, where mathematics is an underpinning requirement of the course. All the essentials of engineering mathematics - from algebra, geometry and trigonometry to logic circuits, differential equations and probability - are covered, with clear and succinct explanations and illustrated with over 300 line drawings and 500 worked examples based in real-world application. The emphasis throughout the book is on providing the practical tools needed to solve mathematical problems quickly and efficiently in engineering contexts. John Bird's presentation of this core material puts all the answers at your fingertips.

Interpretation of DNA profile matches depends on the use of statistical weights. This text provides the background information in statistics and genetics for the reader to arrive at these weights.

Target success in WJEC Level 1/2 Vocational Award in Hospitality and Catering, Units 1 & 2, 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. - Learn to revise effectively using engaging practical revision activities - for example, creating mind maps, watching videos and making flash cards. - Improve exam technique through practice questions, expert tips and examples of typical mistakes to avoid. - Get exam ready and prepare for the Unit 1 assessment with extra quick quizzes and answers to the practice questions available online. - Approach the Unit 2 Learner Assignment Brief confidently with clear explanations of what's required and guidance on preparing your evidence.

This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates. Student book

Statistical Genetics for Forensic Scientists

Interpreting DNA Evidence

My Revision Notes: WJEC Level 1/2 Vocational Award in Hospitality and Catering

New Biology for You

Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

BTEC First in Principles of Applied Science Study and Exam Practice

The perfect companion to the popular Level 3 Criminology Student Book from Illuminate, this Study and Revision Guide summarises key information in a manageable and highly-visual way. // Written by experienced teachers and examiners it includes a wealth of practice exam questions and model answers to help students refine their exam technique. // Offers invaluable guidance to ensure students are well prepared for the controlled assessments with a summary covering key points for the Assessment Criteria. // Criminological theories are broken down and advice is provided to help students apply and evaluate these theories. // Engaging activities and other stimulating features such as 'Take it further', 'Test Yourself' and 'Explore Online' consolidate learning and encourage students to put their knowledge into action.

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

Electrical Circuit Theory and Technology

Health & Social Care

BTEC First in Applied Science: Principles of Applied Science Unit 1 Revision Workbook

Construction Mathematics

Bird's Electrical Circuit Theory and Technology

A clear, comprehensible, and practical guide to the essentials of computer cryptography, from Caesar's Cipher through modern-day public key. Cryptographic capabilities like detecting imposters and stopping eavesdropping are thoroughly illustrated with easy-to-understand analogies, visuals, and historical sidebars. The student needs little or no background in cryptography to read Cryptography Decrypted. Nor does it require technical or mathematical expertise. But for those with some understanding of the subject, this book is comprehensive enough to solidify knowledge of computer cryptography and challenge those who wish to explore the high-level math appendix.

This Revision Workbook has been specifically written for Unit 8: Scientific Skills in Application of Science of the Level 2 BTEC Firsts in Applied Science. Worked examples, exam questions, revision practice questions and 'test yourself' questions prepare learners for the Unit 8 exam.

Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 400 problems and 400 worked answers.The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--

This Revision Workbook delivers hassle-free hands-on practice for the externally assessed units.

BTEC First in Applied Science: Principles of Applied Science Unit 1 Revision Guide

Revise BTEC National Business Revision Workbook

BTEC First in Applied Science: Application of Science - Unit 8 Revision Guide

Btec First Application of Science, Student Book

Second Edition

Please note: Specification changes to Unit 3 were announced by Pearson in late May 2021. These changes will apply to learners sitting Unit 3 exams from January 2022 and onwards. This means that Unit 3 within this book does not now match the revised specification. Units 4,5,6 and 7 within this book remain unchanged. There is a new Book 2 Revised Edition for the revised Unit 3 specification coming in Spring 2022. / Written by Cara Flanagan and other leading authors, two books support the Pearson BTEC Level 3 National in Applied Psychology and are endorsed for BTEC. / Book 2 covers the Extended Certificate Units and Book 1 covers the Certificate Units. The Extended Certificate comprises of four units - the Certificate Units plus Health Psychology and one optional unit. / Each book provides knowledge and evaluation of theories and studies combined with many engaging activities to deliver the vocational element; / Activities aim to prepare you for internal and external assessments; / A brilliant visual style and tone will encourage you through every step of the course.

Biology For You has been updated to offer comprehensive coverage of the revised GCSE specifications. It can be used with either mixed ability or streamed sets and higher tier materials are clearly marked.

Revise BTEC National Applied Science Revision GuideBTEC National Applied Science Revision WorkbookSecond Edition

Concepts of Genetics emphasises the fundamental ideas of genetics, while exploring modern techniques and applications of genetic analysis.

Teacher Pack

BTEC First Applied Science

Higher Engineering Mathematics

Principles of Applied Science

Construction Mathematics is an introductory level mathematics text, written specifically for students of construction and related disciplines. Learn by tackling exercises based on real-life construction maths. Examples include: costing calculations, labour costs, cost of materials and setting out of building components. Suitable for beginners and easy to follow throughout. Learn the essential basic theory along with the practical necessities. The second edition of this popular textbook fully updated to match new curricula, and expanded to include even more learning exercises. End of chapter exercises cover a range of theoretical as well as practical problems commonly found in construction practice, and three detailed assignments based on practical tasks give students the opportunity to apply all the knowledge they have gained. Construction Mathematics addresses all the mathematical requirements of Level 2 construction NVQs from City & Guilds/CITB and E courses, including the BTEC First Diploma in Construction. Additional coverage of the core unit Mathematics in Construction and the Built Environment from BTEC National Construction, Civil Engineering and Building Services courses makes this an essential revision aid for students who do not have Level 2 mathematics experience before commencing their BTEC National studies. This is also the ideal primer for any reader who wishes to refresh their mathematics knowledge before going into a construction HNC or BSc.

Exam Board: BTEC Level: KSA Subject: Vocational First Teaching: September 2016 First Exam: June 2018 Help your students gain the academic expertise and employability skills needed for further progression in education or the workplace with this textbook, fully updated to reflect the new structure and content of the 2016 Level 3 BTEC qualification. - Prepare your students for new external assessment requirements with teaching guidance and tips - Contextualise knowledge and practical understanding of concepts with case studies - Provide opportunities to stretch and challenge Distinction students - Help students prepare for assignments with activities linked to assessment criteria - Written by expert author team Jennifer Stafford-Brown and Simon Rea

Target exam success with My Revision Notes. Our updated approach to revision will help you learn, practise and apply your skills and understanding. Coverage of key content is combined with practical study tips and effective revision strategies to create a guide you can rely on to build both knowledge and confidence. My Revision Notes: AQA Applied Science will help you: - Build quick recall with bullet-pointed summaries at the end of each chapter. - Improve maths skills with helpful reminders and tips accompanied by worked examples. - Practise and apply your skills and knowledge with Exam practice questions and frequent now test yourself questions, and answer guidance online - Develop your subject knowledge by Making links between topics for more in-depth exam answers. - Understand key terms you will need for the exam with user-friendly definitions and a glossary - Avoid common mistakes and enhance your exam answers with Exam tips. - Plan and manage your revision with our topic-by-topic planner and exam breakdown introduction.

Written by an expert author team of BTEC teachers, verifiers and science professionals so you can be sure the content is reliable, relevant and of the highest quality. Student Book 2 provides a range of optional units and all the extra mandatory units required to support learners studying for the Diploma or Extended Diploma as well as the Biomedical Science, Analytical and Forensic Science and Physical Science Extended Diploma Pathways. Each Student Book has clearly laid out pages with a range of supportive features to aid learning and teaching: * Getting to know your unit sections ensure learners understand the grading criteria and unit requirements. * Getting ready for assessment sections focus on preparation for external assessment with guidance for learners on what to expect. Hints and tips will help them prepare for assessment and sample answers are provided for a range of question types including, short and long answer questions, all with a supporting commentary. * Pause point features provide opportunities for learners to self-evaluate their learning at regular intervals. Each Pause Point feature give learners a Hint or Extend option to either revisit and reinforce the topic or encourage independent research or further study skills. * Case study and Theory into practice features enable development of problem-solving skills and place the theory into real-life situations learners could encounter. * Assessment practice features provide scaffolded assessment practice activities that help prepare learners for assessment. Within each assessment practice activity, a Plan, Do and Review section supports learners' formative assessment by making sure they fully understand what they are being asked to do, what their goals are and how to evaluate the task and consider how they could improve. * Literacy and numeracy activities provide opportunities for reinforcement in these key areas, placing the skills into a sport context.

Dedicated Think Future pages provide case studies from the industry, with a focus on aspects of skills development that can be put into practice in a real work environment and further study. This student book covers: Unit 5: Principles and Applications of Science IIUnit 6: Investigative ProjectUnit 7: Contemporary Issues in ScienceUnit 17: Microbiology and Microbiological TechniquesUnit 21: Medical Physics ApplicationsUnit 23: Forensic Evidence, Collection and Analysis

BTBTEC Nationals Business Student Book 1 + Activebook

Engineering Mathematics Pocket Book

BTEC National Applied Science Revision Workbook

New Head Start to A-Level Chemistry

WJEC Level 3 Applied Certificate & Diploma Criminology: Study and Revision Guide

Updated to match the new 2012 specifications for Principles of Applied Science & Application of Science, this bright and engaging student book presents science in real contexts at a suitable level for BTEC to support new assessments and progression from Pass to Merit and Distinction. This book is endorsed by Edexcel.

Study Skills Guide Your study Skills Guide is designed to help you develop the skills you need to successfully complete your BTEC National course. It will help you to: Understand the best way for you to learn Cope with assessments Manage your time Get the most from your work experience Work in a team Use resources Find, organise and interpret your information Make a presentation Get the most out of your BTEC With plenty of activities and case studies to improve your understanding, your Study Skills Guide will be a valuable companion as you work through the course. Includes: A full sample assignment with advice on how you can improve your grade Lots of easily-digestible tips and ideas to help you on your way Write-in skills building section where you can practice essential personal, learning and thinking skills and functional skills

"This compendium of essential formulae, definitions, tables and general information provides the mathematical information required by students, technicians, scientists and engineers in day-to-day engineering practice. All the essentials of engineering mathematics - from algebra, geometry and trigonometry to logic circuits, differential equations and probability - are covered, with clear and succinct explanations and illustrated with over 300 line drawings and 500 worked examples based in real-world application.

The emphasis throughout the book is on providing the practical tools needed to solve mathematical problems quickly and efficiently in engineering contexts." --Publisher.

This student book supports the level 1/level 2 BTEC First Award in Applied Science - Principles of Applied Science NQF specification for first teaching from September 2012. The book covers all four mandatory units so learners have relevant and specific content to complete the new 2012 award.

BTEC First in Applied Science

Mechanical Engineering Principles

Cryptography Decrypted

Application of Science - Unit 8 Revision Workbook

BTEC First in Applied Science: Principles of Applied Science Student Book

This Revision Guide has been specifically written for externally assessed Unit 1: Principles of Science in Award 1 of the Level 2 BTEC Firsts in Applied Science. The guide is organised by the assessment structure of the qualification and gives students guidance on the external assessment.

This must-have textbook provides wider reading and broad, underpinning knowledge for Level 3 students on a range of courses.

This Revision Workbook is specifically written for the externally assessed Unit 1: Principles of Science in Award 1 of the Level 2 BTEC Firsts in Applied Science.

This text provides comprehensive coverage of the BTEC national in sport and exercise science diploma and certificate. Each chapter contains practical activities that put theory into practice and generate data for use in assignments.

Pearson BTEC National Applied Psychology

For the 2016 Specifications

My Revision Notes: AQA Applied Science

Revise BTEC National 2016 Applied Science Revision Guide Print

BTEC Level 3 National Applied Science Study Guide

Updated to match the new 2012 specification for Principles of Applied Science, this comprehensive teacher pack includes detailed lesson plans, assignments and worksheets covering all Level 1, Pass, Merit and Distinction criteria, supported by easy-to-use administrative tools. * Printed pack with accompanying CD-ROM containing editable MS Word documents and PDFs * Clear assessment criteria and planning grid provided for each unit * Detailed lesson plans to deliver all unit content * Exam-style question paper for Unit 1 * Assignments for Units 2, 3 and 4 covering all Level 1, Pass, Merit and Distinction criteria * Worksheets that build into a portfolio of evidence * Original and inventive activities designed to make science exciting and involve students in the learning process * Easy-to-use and adapt scheme of work * Functional Skills and PLTS covered * User-friendly tracking sheet * Written by Collins authors with hands-on experience of teaching science at the right level for BTEC students This Teacher Pack covers: Unit 1: Principles of Science Unit 2: Chemistry and Our Earth Unit 3: Energy and Our Universe Unit 4: Biology and Our Environment 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. Past examinations questions are essential to good preparation, improving understanding and confidence. This guide has combined revision with tips and more practice questions than you could shake a stick at. All the essential ingredients for getting a grade you can be really proud of. Each specification topic has been referenced and distilled into the key points to make in an examination for top marks. Questions on all topics assessing knowledge, application and analysis are all specifically and carefully devised throughout this book.

This Student Book supports the new BTEC First Award in Application of Science. The first external assessment for this award will take place in March 2014, although the award can be taught from 2012.

"This undergraduate and advanced pre-degree textbook includes 850 worked examples. Now with glass batteries, climate change and the future of electricity production. Its companion website includes multiple choice tests, laboratory experiments, and 1400 questions and solutions"--

BTEC Level 3 Nationals 2016 Applied Science Student

BTEC First in Principles of Applied Science Study and Exam Practice

Book 2

Revise Btec National Health and Social Care Revision Workbook

BTEC National Level 3 Sport and Exercise Science 4th Edition

This Revision Guide is specifically written for the externally assessed Unit 8: Scientific skills in Application of Science of the Level 2 BTEC Firsts in Applied Science. This guide will help learners revise examination topics and is cross-referenced to the companion Student Book for ease of use.

Concepts of Genetics, EBook, Global Edition

Electrical and Electronic Principles and Technology

Revise BTEC National Applied Science Revision Guide

Mathematics Pocket Book for Engineers and Scientists

Clear/Revise OCR GCSE Computer Science J277