BTEC Applied Science Unit 5 physics

What are the standard units of mass, length and time? - Correct answer-Kilograms, metres and seconds

What are the SI prefixes for 10^3, 10^6 and 10^9? - Correct answer-kilo, mega, giga

What are the SI prefixes for 10^-3, 10^-6 and 10^-9? - Correct answer-milli, micro, nano

What is work done? - Correct answer-The energy transferred in moving something

What is power? - Correct answer-the rate at which work is done

What happens to a gas when it is compressed? - Correct answer-Particles get closer together
Gas pressure increases
More collisions between particles and container
Temperature of gas rises

How do you calculate work done from a P-V graph? - Correct answer-The area under the graph

What is efficiency? - Correct answer-the percentage of the work input that becomes useful work output

What is thermal equilibrium? - Correct answer-when two objects have the same temperatures and net heat transfer is zero

What is the first law of thermodynamics? - Correct answer-The change in a system's internal energy is equal to the difference between heat added to the system from its surroundings and work done by the system on its surroundings

What are ideal gases? - Correct answer-All collisions are elastic All motion is random There are no forces between particles

What is absolute zero? - Correct answer-0 K Particles have 0 kinetic energy

What is the second law of thermodynamics? - Correct answer-Heat will not flow from a colder body to a hotter one without an input of work. A natural process cannot fully be reversed.

Past Papers Btec Principles In Science

J. O. Bird

Past Papers Btec Principles In Science:

BTEC National Level 3 Sport and Exercise Science 4th Edition Jennifer Stafford-Brown, Simon Rea, Tim Eldridge, 2016-12-05 Exam Board BTEC Level KS4 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 build 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 Science for Engineering J. O. Bird, 2003 Engineering science is introduced through examples rather than theory in this book enabling students to develop a sound understanding of engineering systems in terms of the basic scientific laws and principles BTEC First in Principles of Applied Science Study and Exam Practice

Science for Engineering John Bird, 2013-01-17 Science for Engineering offers an introductory textbook for students of engineering science and assumes no prior background in engineering John Bird focuses upon examples rather than theory enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles This book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies mechanical applications electrical applications and engineering systems This new edition of Science for Engineering covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams It has also been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications Supported by free lecturer materials that can be found at www routledge cw bird This resource includes full worked solutions of all 1300 of the further problems for lecturers instructors use and the full solutions and marking scheme for the fifteen revision tests In addition all illustrations will be available for downloading BTEC National Sport and Exercise Science Student Book Adam Gledhill, 2007-07 Suitable for BTEC National Sport and Exercise Sciences to match Edexcel's 2007 specification this book covers the curriculum in manageable chunks that link to the specification headings so that students can be confident that they have covered the underpinning theory they need It features a full colour format **British Qualifications** Kogan Page, 2004 In a single volume the new edition of this guide gives comprehensive coverage of the developments within the fast changing field of professional academic and vocational qualifications career fields their professional and accrediting bodies levels of membership and qualifications and is a one stop quide for careers advisors students and parents It should also enable human resource managers to verify the qualifications of potential employees **BTEC National Sport** George

Caplan, 2007-07 Matches Edexcel's specification which will apply from September 2007 and includes the core units for the Development Coaching and Fitness and Performance and Excellence pathways **Science and Mathematics for Engineering** John Bird, 2019-10-08 A practical introduction to the engineering science and mathematics required for engineering study and practice Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications A new chapter covers present and future ways of generating electricity an important topic John Bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles This book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies mechanical applications electrical applications and engineering systems This book is supported by a companion website of materials that can be found at www routledge cw bird This resource includes fully worked solutions of all the further problems for students to access and the full solutions and marking schemes for the revision tests found within the book for instructor use In addition all 447 illustrations will be available for downloading by The School Science Review ,2004 **British Qualifications** Kogan Page Staff,1999 Timed to coincide with lecturers the ICC Cricket World Cup 2003 in South Africa this book begins with an account of the 2003 final in Johannesburg Edward Griffiths then goes back to the beginning the genesis of the one day game with the launch of the Gillette Cup in 1963 and traces the development of the game over four decades There are some accounts of the first and subsequent Cricket World Cup tournaments which highlight the changes in the game over the years heroic performances triumphs and defeats

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