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**Pearson BTEC
Level 3
Nationals
Certificate**

Centre Number

Learner Registration Number

Wednesday 15 January 2020

Morning (Time: 40 minutes)

Paper Reference **31617H/1C**

Applied Science / Forensic and Criminal Investigation

Unit 1: Principles and Applications of Science I

Chemistry

SECTION B: PERIODICITY AND PROPERTIES OF ELEMENTS

You must have:

A calculator and a ruler.

Treatment Networks

Instructions

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The exam comprises three papers worth 30 marks each.
Section A: Structure and functions of cells and tissues (Biology).
Section B: Periodicity and properties of elements (Chemistry).
Section C: Waves in communication (Physics).
- The total mark for this exam is 90.
- The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.
- The periodic table of elements can be found at the back of this paper.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over

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British Vocational Qualifications Kogan Page, 2003 Over the last decade as the importance of vocational qualifications has been firmly established the system has become increasingly complex and hard to grasp Now in its sixth edition this popular and accessible reference book provides up to date information on over 3500 vocational qualifications in the UK Divided into five parts the first clarifies the role of the accrediting and major awarding bodies and explains the main types of vocational qualifications available A directory then lists over 3500 vocational qualifications classified by professional and career area giving details of type of qualification title level awarding body and where possible the course code and content The third section comprises a glossary of acronyms used together with a comprehensive list of awarding bodies industry lead bodies professional institutes and associations with their contact details Section four is a directory of colleges offering vocational qualifications in the UK arranged alphabetically by area Finally section five is an index of all qualifications listed alphabetically by title

Equality and Diversity in Further Education Sheine Peart, 2025-02-28 Further Education is the most diverse of all the education sectors Managing diversity and promoting equality a legislative requirement of the 2010 Equalities Act brings significant challenges for practitioners who are tasked with making the rhetoric of politicians a reality often with little guidance and few resources This book provides practical guidance for existing lecturers and trainee teachers explaining how they can overcome these challenges and establish a positive learning environment to meet the needs of all learners This accessible and up to date book extends the scope of the diversity and inclusion debate to consider a wide range of issues including age working with cross cultural groups promoting effective gender relations sexual orientation and working with current and ex offenders Each chapter includes clear objectives case studies critical thinking tasks chapter reflections and a learning review audit

Citizenship and Democracy in Further and Adult Education Neil Hopkins, 2013-07-30 This book addresses the questions why citizenship education is an important subject for students in further and adult education and why we need democratic colleges to support the study of citizenship education It investigates the historical roots of further and adult education and identifies how the adoption of citizenship education in the post compulsory sector can enrich vocational studies in further education and programmes in adult education It is argued that democratic colleges are vital to ensure that citizenship education informs the decision making process throughout educational institutions and as a means of establishing fair and equal representation for important stakeholders The author has worked in both sectors for over a decade and uses this experience to offer a blend of educational practice and philosophical investigation The result is a work that appeals to both teachers in further and adult education as well as academics and students interested in philosophy of education

Handbook for Education - Bristol Guide 2021-2022 UNIVERSITY OF BRISTOL, School of Education, 2020-08-03 The guide is an essential resource for trainee teachers working towards the Teachers Standards for qualified teacher status QTS It also helps newly qualified teachers NQTs and more

experienced teachers have an understanding of and always act within the statutory frameworks which set out their professional duties and responsibilities Teachers Standards Higher Level Teaching Assistants HLTAs and Teaching Assistants TAs working towards HLTA status will find the guide invaluable in developing knowledge of how other frameworks that support the development and well being of children and young people impact upon their practice HTLA Professional Standards British Qualifications Kogan Page,2006 The field of professional academic and vocational qualifications is ever changing The new edition of this highly successful and practical guide provides thorough information on all developments Fully indexed it includes details on all university awards and over 200 career fields their professional and accrediting bodies levels of membership and qualifications It acts as an one stop guide for careers advisors students and parents and will also enable human resource managers to verify the qualifications of potential employees Gower Handbook of Call and Contact Centre Management Natalie Calvert,2004 This handbook provides an important tool in understanding and dealing with a wide range of management issues in call centres and contact centres **Learn While You Earn** Catherine Dawson,2010-02-03 With rising costs of higher education and worrying levels of graduate unemployment many people are choosing to balance their professional training with the financial security of employment But what are the options for those looking to gain qualifications without taking on high levels of debt And what grants or funding may be available across the UK This new title published in conjunction with The Times looks at the many ways in which learning can be initiated re started or continued while still earning money From the more obvious routes of apprenticeships to part time learning through City Guilds or the Open University Learn While You Earn examines the full range of opportunities for those looking to broaden their skill base whether they are a job seeker in employment or in higher education The Penguin Careers Guide Philip Gray,2013-09-26 The Penguin Careers Guide is the indispensable and practical source for anyone seeking careers information Now fully revised and updated for its fourteenth edition it contains in depth discussions of hundreds of possible careers with invaluable advice on education training and employment issues Whether you re just starting out after college or returning to work looking for a full or part time position wondering how to set up your own business or finance your studies this is the essential guide to point you in the right direction **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 guide for careers advisors students and parents It should also enable human resource managers to verify the qualifications of potential employees **Contemporary Issues in Physical Education** Ken Hardman,Ken Green,2011 The book provides an insight into the current situation of PE in schools across Europe as a forerunner to addressing PE related existing and emerging issues in various contexts *Training to Teach* Neil Denby,2012-01-20 Teaching is a tough and challenging job and society demands more from its teachers than ever before This

new edition is an essential companion for those training to teach providing an overview of important professional issues that all future teachers need to engage with in order to succeed in the classroom Previously known as *How to Achieve Your QTS* this Second Edition is equally valuable to those training to teach in both primary and secondary education and aims to give students the confident start they need in the classroom Features new to this edition include more balanced primary education coverage and four new chapters on child protection issues teaching pupils with English as an Additional Language cross curricular teaching issues and your first teaching post applications interviews and induction The accompanying Website www.sagepub.co.uk/denby has been updated to include additional material expanding on and complementing the contents of the book This book is essential reading for professional studies modules on both primary and secondary initial teacher education courses at both undergraduate and postgraduate level and on university based and school based training courses Neil Denby teaches at the School of Education and Professional Development University of Huddersfield

Teaching Mathematics in the Secondary School Paul Chambers, Robert Timlin, 2013-03-31 Chambers and Timlin write with clarity and purpose The authors link the theory of teaching mathematics with simple reflective questions and interesting maths tasks There is practical advice on planning assessment and differentiations amongst other pertinent themes Jacqueline Oldham PGCE Secondary Mathematics Course Tutor St Mary's University College This is a very practical guide for learning to teach mathematics for student teachers on all training routes Chapters are focused and readable but succeed in tackling issues in depth giving the reader strong academic support Anne Haworth PGCE Secondary Mathematics Course Tutor University of Manchester This book is an essential companion for anyone training to teach mathematics in secondary education It offers clear and engaging coverage of all major aspects of mathematics teaching that you will need to engage with in order to successfully train for the classroom This Second Edition includes a new chapter exploring different teaching approaches including active learning effective group work and creative mathematics teaching expanded coverage of assessment using resources in the classroom and metacognition and learning updated coverage of recent developments in education policy and the 2012 Teachers Standards This is essential reading for anyone training to teach secondary mathematics including postgraduate PGCE SCITT and school based routes into teaching Free digital resources for extra support is available in the book's companion website It includes Web links and further reading for each chapter A video series of a sample classroom lesson filmed in a real life setting Visit www.sagepub.co.uk/chamberstimlin

International Handbook on Education in Southeast Asia Lorraine Pe Symaco, Martin Hayden, 2021-12-23 This International Handbook provides a detailed account of the education systems of 11 Southeast Asian nations including Brunei Darussalam Cambodia Indonesia Lao People's Democratic Republic Malaysia Myanmar the Philippines Singapore Thailand Timor Leste and Vietnam It presents a systematic sector by sector explanation of how these national education systems deliver educational services and respond to national and international issues and challenges With 56 chapters the International Handbook is the region's

most comprehensive educational reference source In the first of its chapters the editors introduce the regional context and draw attention to the distinctive characteristics of each of the 11 systems Southeast Asia representing 8.5% of the world's population is as dynamic as it is diverse The International Handbook charts progress and establishes a benchmark for documenting future developments It also provides a stepping off point for more detailed investigations of decision making processes and outcomes across the 11 national education systems

Learning Through the Workplace David Gray, 2004 Practical information on continuous learning in the workplace is supplied in this new text Readers are given practical advice on such topics as portfolio building skills building and appraisals

International Handbook on Education Development in the Asia-Pacific Wing On Lee, Phillip Brown, A. Lin Goodwin, Andy Green, 2023-11-20 The Springer International Handbook of Educational Development in Asia Pacific breaks new ground with a comprehensive fine grained and diverse perspective on research and education development throughout the Asia Pacific region In 13 sections and 127 chapters the Handbook delves into a wide spectrum of contemporary topics including educational equity and quality language education learning and human development workplace learning teacher education and professionalization higher education organisations citizenship and moral education and high performing education systems The Handbook is grounded in specific Asia Pacific contexts and scholarly traditions using unique country specific narratives for example Vietnam and Melanesia and socio cultural investigations through lenses such as language identity or colonisation while offering parallel academic discourse and analyses framed by broader policy commentary from around the world

Language Issues, 1986

Engineering A Level Curriculum Support Pack Mike Tooley, 2012-09-10 Used alongside the students text Engineering A Level this pack offers a complete suite of teaching resource material and photocopiable handouts for the compulsory AS and A2 units of the 2005 GCE Engineering syllabus from Edexcel Coverage is given to the three units required at AS Level and the 3 additional A2 units required for completion of the A Level award Mike Tooley provides the essential resources needed by busy teachers and lecturers as well as a bank of student centred practical work and revision material that will enable students to gain the skills knowledge and understanding they require Also available in electronic form for adopters upon request this pack will save teachers and course teams many hours work preparing handouts and assignments and is freely photocopiable within the purchasing institution The pack includes Exercises to support and develop work in the accompanying student text Planned projects which will enable students to display a wide range of skills and use their own initiative Assessment materials Reference material for use as hand outs Background on running the new Engineering A Level Teachers notes supporting activities in the students book Additional web based resources for lecturers available on a companion website Mike Tooley is formerly Vice Principal and Head of Faculty of Engineering at Brooklands College Surrey and is the author of many best selling engineering and electronics books

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