

science, biology, chemistry & physics

2013-14

nelson secondary catalogue









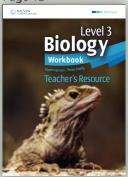
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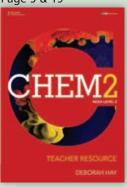
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Welcome to Nelson Cengage Learning New Zealand Science Catalogue including our Biology, Chemistry and Physics resources for 2013/2014.

This catalogue highlights resources from across our extensive product range - New House (New Zealand), Nelson Secondary (Australia), Hodder (UK) and Nelson Thornes (UK).

To help you navigate your way through the catalogue, please refer to the Education Age/Level comparison chart on the back cover.

On-approval copies

We are pleased to offer most of our titles to prospective buyers on approval for 30 days.

Photocopiable books and some electronic products are not available on approval; however sample pages or a demo disk may be available upon request.



■■■■ New House

Nelson Thornes





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New Zealand titles published by Nelson







uk United Kingdom



j Junior (Years 9–10)



m Middle (Years 10–11)

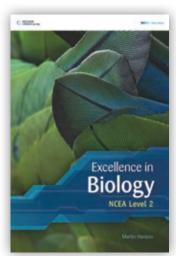


Senior (Years 11–13)

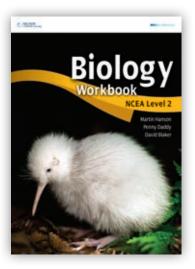
NEW SENIOR SCIENCES

BIOLOGY FOR NCEA LEVEL TWO

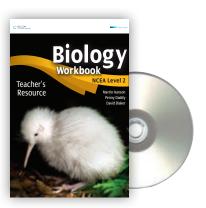




Excellence in Biology NCEA Level Two 9780170214094 \$54.95



Biology Workbook NCEA Level 2 9780170262293 \$29.95

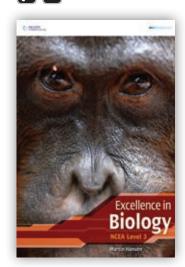


Biology Workbook NCEA Level 2 Teachers Resource CD 9780170262309 \$79.95

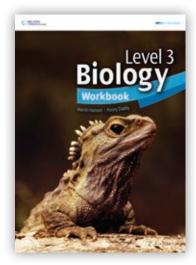
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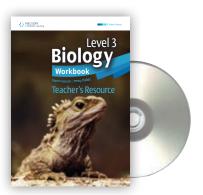




Excellence in Biology NCEA Level Three 9780170233286 \$59.95



Level Three Biology Workbook 9780170233262 \$29.95



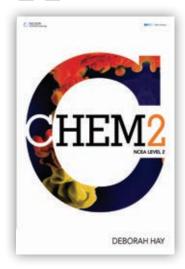
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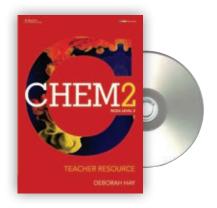
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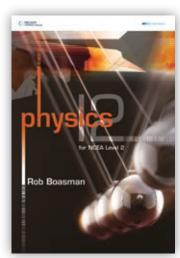




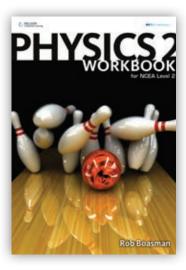
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PHYSICS FOR NCEA LEVEL TWO





Physics 12 for NCEA Level 2 9780170195980 \$57.50



Physics 2 Workbook for NCEA Level 2 9780170195997 \$29.95



Physics 2 Workbook for NCEA Level 2 Teacher Resource 9780170196000 \$79.95

For Full Details see Page 19

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SCIENCEPLUS 1 & 2



David Blaker, Catherine Downey, Elizabeth Mead, Philip Sharp, Brent Smith





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SciencePLUS BOOK 1 & CD (Year 9) 9780170182218	\$47.95
SciencePLUS Book 1 Teacher Resource CD 9780170186902	\$108.50
SciencePLUS BOOK 2 & CD (Year 10) 9780170182225	\$47.95
SciencePLUS Book 2 Teacher Resource CD 9780170186919	\$108.50

SciencePLUS is a comprehensive and engaging resource for the changing needs of New Zealand secondary school science.

Differentiation

SciencePLUS has different material catering for a wide range of sudent ability. The writing is within the reading capabilities of the great majority of students.

There is a wide differentiation in the tasks provided. Teachers can pre-select and allocate different tasks to different individual students.

- Review questions at the end of each unit are text-based.
 The first few questions are within the ability of almost every student.
- Activity tasks and Hands-on tasks: both have considerable differentiation. Some are 'recipes' with clear simple instructions, while other tasks require planning and evaluation on the part of students.
- Challenge: for fast-finishers who can go to the Internet or library or specialist equipment to pursue a line of inquiry.

Class time

Each unit consists of a single double-page spread, and is designed — in most cases — to provide material and tasks for 1–3 lessons for average–ability students. Teachers have the choice of moving rapidly through some units and spending more time on other units, depending on student interest. For all but the very fastest learners, each *SciencePLUS* book contains more than enough material for a full year course.

Key Features

- Highly visual; abundant illustrations, full colour throughout.
- Structured in double page units, each providing two or three lessons for an average class.
- Carefully constructed learning sequence.
- Reading level designed to suit the great majority of students
- Key-competency tasks identified in each unit.
- Almost every unit has one 'Hands-on' (practical experiment).
- Carefully constructed learning sequence.
- Units include challenge tasks for fast-finishers.
- Every unit has end-of-topic review questions.

Teacher Resource CDs

- Has answers to the review questions in each unit.
- Extra information plus answers, where applicable on the activities and practical hands–on in each unit, written to help teachers who may not yet be familiar with those particular tasks.
- Photocopiable black line masters (BLMs), including some topic tests.
- A more extensive list of websits than is contained in the student CD.
- Drawings and photographs for data projectors and smartboards.
- A 'Read first' section: suggested starter–strategies for new topics, and also for checking on students' understanding during the course of a topic.

SCIENCE WORKBOOKS FOR YEARS 9 & 10



David Blaker, Anne Rowlands, Brent Smith





Introduction

Science Workbooks 1 and 2 are companion resources for the textbooks SciencePlus 1 and 2, but can also be used independently. Workbook 1 contains 136 tasks and Workbook 2 contains 142 tasks. Average students will find these range from easy 10-minute tasks, up to more difficult ones that will require more than 20 minutes. Some harder and open-ended tasks are designated 'challenge'.

Students can use the workbooks both in class and at home, in most cases with little or no assistance – but obviously it will help if some prior teaching has taken place.

Because we realise schools may divide junior topics differently between their Year 9 and 10 programmes we will happily provide schools that place bulk orders with a pdf of selected pages from either workbook to ensure you have complete coverage at each year level.

Differences between Book 1 and 2

Book 1 is aimed at Year 9 (ages 13 and 14) and contains topics that are more descriptive and less conceptual.

Book 2 is aimed at Year 10 (ages 14 and 15). Topics are slightly more conceptual and more quantitative.

In some areas it may be possible to use Books 1 and 2 interchangeably, but it could help teachers to be aware of the intentions lying behind each book – both for the Workbooks and for SciencePlus

Teacher Guide and CD

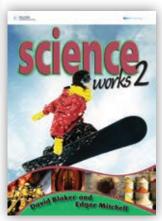
The full-colour teacher guides supports the Science Workbooks and include answers, a CD-ROM and a comprehensive set of ready-to-use worksheets that students can use to guide and record practical work.

Science Workbook 1 (Year 9) 9780170214650	\$19.95
Science Workbook 1 Teacher Resource + CD 9780170221313	\$99.95
Science Workbook 2 (Year 10) 9780170214667	\$19.95
Science Workbook 2 Teacher Resource + CD 9780170221382	\$99.95

SCIENCE WORKS 1 & 2

Anne Henderson, David Blaker and Edgar Mitchell





Science Works is an engaging New Zealand science course written and designed for years 7 and 8 students. Curriculum-linked, full colour and visually attractive, each book is divided into manageable topics. Topics are presented with learners in mind and key scientific concepts are introduced in language which is easily processed.

Extension activities and hands-on practicals are also included and questions have been written to cover the 3-storey approach to learning.

Teacher's Guide

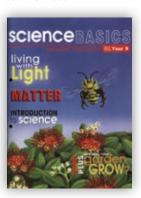
A Teacher's Guide accompanies each text and includes additional support material for teachers, as well as extra practical activities for class use.

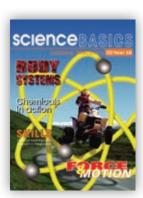
Science Works 1 9780170950152	\$21.95
Science Works 1 Teacher's Guide 9780170950572	\$59.95
Science Works 2 9780170950138	\$21.95
Science Works 2 Teacher's Guide 9780170950589	\$59.95

SCIENCE BASICS 1, 2, 3 & 4 YEARS 9 & 10



Joanne Macown





Science Basics is an affordable New Zealand Science course specifically written for Years 9 and 10. Student write-on texts build up a complete set of notes and practical activities reinforce key ideas. The easy-to-read text is highly illustrated. Full notes for teachers are contained in the teachers' books while practical work and ready-to-use tests in NCEA format are found on the CDs.

Key Features

- Written for the New Zealand Science curriculum.
- Easy-to-read English.
- Students don't have to write so much in class, meaning there is more time for practical work.
- Pull-out answer section in the centre of each student book.
- Full notes for teachers in the teachers' books.
- Ideal for use in class and at home.
- Provides students with a reference set of completed notes.
- Practical work on the CD.
- Tests in helpful NCEA format on the CD.
- Comprehensive Teachers Book and CD

Teacher books and CD-ROMS

Each of the 4 topics in each resource contain:

- Practical work
- Teaching notes
- Test
- Mark schedule
- Answers.

Student Workbooks		Teacher Books and CD		
Science Basics Book 1 9780170180214 \$14.50		Science Basics Book 1 Teachers Book and CD		
Science Basics Book 2		9781869465322		
9780170950619	\$14.50	Science Basics Book 2		
Science Basics Book 3 9780170180948	\$14.50	Teachers Book and CD 9781869465421	\$65.50	
Science Basics Book 4 9780170131308	\$14.50	Science Basics Book 3 Teachers Book and CD 9781869465520	\$65.50	
		Science Basics Book 4 Teachers Book and CD 9780170131414	\$65.50	

NEW ZEALAND PATHFINDER SCIENCE YEARS 9 & 10



Series Editor and Author: George Hook



New Zealand Pathfinder Science Books A and **B** provide a complete guide for students in the first two years of New Zealand Secondary School Science. It is designed so that students can understand and recall essential scientific ideas, facts, formulae and skills.

This edition is accompanied by a CD-ROM that will assist students in their study of Science with homework revision sheets, web links and interactive activities.

Key Features

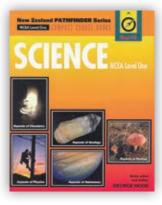
- Helpful designed for students to use independent of teacher input.
- Rewarding enables students to achieve greater success
- Coverage caters for the New Zealand curriculum that applies from 2010 onwards.
- Complete all topics covered.
- Skill focused special skills included in most units.
- Versatile designed to make Science more understandable.
- Streamlined only essential information included.
- Slim covers what students need to know in a compact, colourful format.
- 'Home alone' designed so that students can work by themselves.
- Organised easy to spot the topic which relates to classwork.
- Challenging activities have been included to extend all students.
 CD inside contains digital files for each page of the book,
 students worksheets + tests, enlarged versions of all diagrams.

NEW ZEALAND PATHFINDER SCIENCE NCEA LEVEL ONE



m

Series Editor and Author: George Hook



This book provides complete coverage of the Level One NCEA Science Achievement Standards. It is designed so that students will gain an understanding of essential scientific concepts, principles, formulae and skills.

Key Features

- Skill-focused both investigative and research skills included.
- Assessment-focused –
 extensive assessment activities
 testing recall, understanding
 and application included.
- User-friendly designed to make Science more understandable.
- Streamlined only essential information included.
- Organised easy to spot the topic which relates to classwork.

NEW ZEALAND PATHFINDER SCIENCE NCEA LEVEL TWO



David Relph, May Croucher and Trevor Castle



This book provides coverage of the Level Two NCEA Science Achievement Standards. It is designed so that students can understand and recall essential ideas, principles and processes.

Contents

- The Factors and Processes Involved in the Evolution of New Zealand's Plants and Animals
- New Zealand's Geological History
- The Nature and Life Cycle of Stars
- The Chemical Properties and Effects of Fertilisers
- The Behaviour of Light

Index Glossary Answers

New Zealand Pathfinder Science Year 9 + CD
9780170950558 \$39.95

New Zealand Pathfinder Science Year 10 + CD
9780170950541 \$39.95

New Zealand Pathfinder Science NCEA Level One Year 11

9780170177481 \$34.95

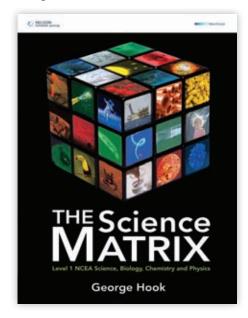
New Zealand Pathfinder Science NCEA Level Two Year 12

9780170131322 \$42.50

THE SCIENCE MATRIX LEVEL 1 NCEA SCIENCE, BIOLOGY, CHEMISTRY AND PHYSICS



George Hook



The Science Matrix is a comprehensive new compact course book covering all 24 of the content-based NCEA level 1 Science, Biology, Chemistry and Physics standards (as specified in NZQA's subject matrix) in just over 200 pages.

For whatever combination of standards you choose to offer students in your Year 11 here is a single affordable textbook that covers the knowledge, understandings and skills your students require for success in both externally and internally assessed NCEA standards.

Building on the long-term appeal of the Pathfinder unit format, George Hook has written numerous new units and updated existing ones to cover all bullet points of the new standards. The units closely reflect the current expectations and requirements of NCEA examiners and assessors.

Contents

USING THIS BOOK COVERAGE OF THE NCEA LEVEL 1 SCIENCE MATRIX

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Unit 2: Force, Mass, Acceleration and Pressure

Unit 3: Energy, Work and Power

Electricity and Magnetism - Physics 1.3 and Science 1.2

Unit 4: Static Electricity and Charging

Unit 5: Direct Current Electricity

Unit 6: Current and Voltage in Circuits

Unit 7: Resistance, Power and Energy

Unit 8: Magnetism and Electromagnetism

Heat - Physics 1.5 and Science 1.4

Unit 9: Thermal Energy and Heat Flow

Unit 10: Heat Transfer and Insulation

Wave Behaviour - Physics 1.4 and Science 1.3

Unit 11: Properties and Types of Waves

Unit 12: Reflection and Refraction of Light

THE MATERIAL WORLD

Atoms and Elements - Chemistry 1.4 and Science 1.5

Unit 13: Atoms and Elements

Unit 14: Ions and Compounds

Metals and Non-metals - Chemistry 1.4 and Science 1.7

Unit 15: Properties of Metals

Unit 16: Extraction and Uses of Metals

Unit 17: Properties and Uses of Non-metals

Chemical Reactions - *Chemistry 1.5 and Science 1.8 and Science 1.5*

Unit 18: Reaction Rates and Particle Collisions

Unit 19: Types of Chemical Reactions

Acids and Bases - Science 1.5

Unit 20: Acids, Bases and Neutralisation

Carbon Chemistry - Chemistry 1.3 and Science 1.6

Unit 21: Properties of Carbon Compounds

Unit 22: Production and Uses of Carbon Compounds

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Genetics and Inheritance - Science 1.9

Unit 23: Traits, Genes, Chromosomes and DNA

Unit 24: Reproduction and Growth

Unit 25: Patterns of Inheritance

Unit 26: Phenotype Variation and Adaptive Features

Micro-organisms - Biology 1.3 and Science 1.11

Unit 27: Bacteria, Fungi and Viruses

Unit 28: Environmental Factors and Micro-organisms

Unit 29: Helpful and Harmful Micro-organisms

Life Processes - Science 1.10, Biology 1.5 and Biology 1.4

Unit 30: Life Processes and Environmental Factors

Unit 31: Flowering Plant Reproduction

Unit 32: Flowering Plant Growth and Nutrition

Unit 33: Mammal Nutrition and Respiration

Unit 34: Mammal Circulation and Excretion

Ecosystem - Science 1.12

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PLANET EARTH AND BEYOND

Geological Features - Science 1.13

Unit 36: Formation of Surface Features Part A

Unit 37: Formation of Surface Features Part B

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ANSWERS

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The author

George Hook has written or edited a number of best-selling junior and senior science textbooks. During his time at NZQA from 2008 to 2010, his role included leading the 'road-testing' of all level 1 externally assessed standards that had recently been aligned with New Zealand Curriculum.

Key features

- **Essential content** only content specified in the standards covered.
- Appropriate treatment sufficient depth for general and specialist standards.
- Easy selection units covering a standard readily identified.
- **User-friendly text** content effectively chunked into easily-digested sections.

- **High-quality illustrations** informative and accurate scientific illustrations.
- Up-to-date all science content reviewed, checked and updated.
- Effective emphasis key concepts, principles and formulas highlighted.
- Literacy-focused all terms fully explained in the text and glossary.
- Abundant activities at least ten diverse revision activities per unit.
- Fully answered concise, easily located answers facilitate self-assessment.
- Versatile useful for class work, homework, revision tasks, and relief lessons.
- Future value enables schools to change courses without changing textbooks.

Connections between NCEA Assesments and Chapters								
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UNDERSTANDING SCIENCE YEAR 11

SECOND EDITION



Roy Mathews





Contact Us for Class Set Pricing This full-colour write-on text can be used as a workbook in class, for homework and as a revision book for end of year study. Concise notes and a comprehensive set of graded exercises and activities cover the complete Year 11 Science course. Questions are marked 'A' (Achieved), 'M' (Merit) or 'E' (Excellence) so that students get plenty of practice at answering a variety of NCEA-style questions.

Understanding Science is a New Zealand write-on workbook for students preparing for the NCEA Level One Science external assessments. All three external standards in Science are covered in a proven full colour, easy-to-understand format.

Key Features

- This book covers the three external standards:
 - 1.1 Aspects of Mechanics
 - 1.5 Aspects of Acids and Bases
 - 1.9 Understanding of Biological Ideas Relating to Genetic Variation.
- The text is written in clear, comprehensible English and supported by full colour photographs and diagrams to enhance interest in Science.
- Carefully constructed questions at the end of each unit reflect the emphasis of NCEA assessments and prepare students for the external examination.

Teacher Resource

This resource contains

- Solutions to all questions.
- Supplementary content for Biology, Chemistry, Physics, Astronomy and Geology.

Understanding Science
9780170189521 \$30.95
Understanding Science Teacher Resource CD
9780170189576 \$99.95

EXCELLENCE IN BIOLOGY LEVEL ONE



Martin Hanson



Contact Us for Class Set Pricing

Excellence in Biology Level One is written and designed for effective learning of both the Level One Biology Achievement Standards and the Aspects of Biology Achievement Standards in Level One Science, together with coverage of Carbon Cycling for Level One Science.

Key Features

- Comprehensive coverage and clear student-friendly text supported by detailed colour diagrams and photographs.
- Each chapter caters for the average student by beginning with an elementary treatment of the most familiar, basic principles, but also fulfils the needs of the more able student by leading on to the more difficult concepts.
- Revision questions at the end of each chapter covering basic facts.
- Special Extension sections stimulate and extend more able students.
- NCEA-style practice assessment questions at the end of each part
- A comprehensive Glossary provides short definitions of key terms.

Contents

Part One

- 1 DNA, chromosomes and cell division
- 2 Monohybrid (single character) inheritance Genetics: Assessment Practice

Part Two

- 3 Introduction to microorganisms: Bacteria and other prokaryotes
- 4 Fungi
- 5 Viruses: Living or non-living?
- 6 Microorganisms that can be harmful to humans
- 7 Microorganisms that are useful to humans Microorganisms: Assessment Practice

Part Three

- 8 How plants grow
- 9 How plants feed: Obtaining raw materials and energy
- 10 Reproduction and life cycle of flowering plants
- 11 Plant Processes: Assessment Practice

Part Four

- 12 Mammal as a consumer: Food processing
- 13 Transport round the body: The human blood system
- 14 Respiration, gas exchange and breathing
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- 16 Support and movement: The skeleto-muscular system
- 17 Sensitivity
- 18 A new life: Reproduction

Animal Processes: Assessment Practice

Part Five

- 19 The carbon cycle
- 20 Humans affect the cycle

Carbon Cycling: Assessment Practice

Excellence in Biology Level One 9780170191340

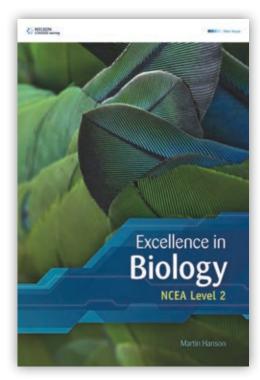
\$39.95

EXCELLENCE IN BIOLOGY NCEA LEVEL 2

SECOND EDITION



Martin Hanson



Contact Us for Class Set Pricing Excellence in Biology NCEA Level 2 is a comprehensive textbook designed for effective learning of Biology at Year 12.

Key Features

- Fully updated to take account of the realignment of Level 2 Biology.
- Highly visual approach and presentation. Hundreds of specially drawn illustrations, all in full colour, help students to understand biological concepts.
- Comprehensive coverage contains all information needed for external NCEA Level 2 Achievement Standards, and background material for some of the internal Achievement Standards.
- Biologically accurate and rigorous.
- Maximum priority given to linking concepts.
- Extension material provides deeper understanding.
- Each chapter has summary of essential facts and ideas, and a quick self-test of basics.

Contents

Part I: Ecology

- 1 Who's who in the living world Introduction
- 2 Organisms and environment
- 3 Populations
- 4 Communities and ecosystems

Part II: Plant and Animal Adaptation

- 5 Adaptation in animals
- 6 Nutrition in animals
- 7 Transport in animals
- 8 Gas exchange in animals
- 9 Adaptation in plants
- 10 Nutrition in plants
- 11 Plants and water
- 12 Transport in plants
- 13 Sexual reproduction in plants

Part III: Genetics

- 14 Genetic variation
- 15 Genetic change

Part IV: Biology of Cells

- 16 Cells under the light microscope
- 17 Cells under the electron microscope
- 18 The chemicals of life
- 19 Cells and energy: Respiration and fermentation
- 20 Light to chemical energy: Photosynthesis
- 21 How cells absorb and get rid of materials
- 22 Chromosomes and cell division
- 23 DNA its structure and replication
- 24 What do genes do? Gene expression Glossary

Index

Answers to the 'Test your basics' sections that appear at the end of the Excellence in Biology NCEA Level 2 chapters are available on the internet for free downloading.



Excellence in Biology NCEA Level 2 9780170214094

\$54.95

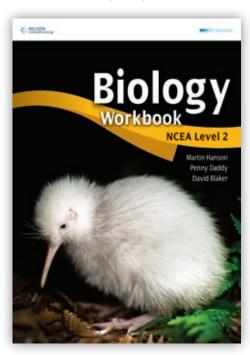
BIOLOGY WORKBOOK NCEA LEVEL 2

SECOND EDITION

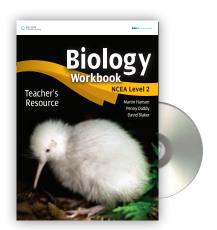




Martin Hanson, Penny Daddy and David Blaker



Contact Us for Quantity Pricing



This fully revised new edition has material covering all NCEA Level Two Biology Achievement Standards: 5 internally assessed, 3 externally. It has been designed to meet student needs for all eight standards.

The Biology Workbook Level 2 provides NCEA style questions which enable students to establish a firmer foundation to their knowledge and application of biology concepts before leading them onto more complex challenges. The workbook can be used independently, or alongside Excellence in Biology NCEA Level 2.

Key features

- Contains a wide range of activities and student selfchecks.
- NCEA-type questions for external standards.
- Full-colour, highly visual presentation.
- Can be used as a stand-alone write-on workbook that includes text material, or alternatively used in conjunction with the textbook Excellence in Biology.
- Answers to activities and self-checks in back of book; answers to NCEA-type questions on a separate resource for teachers.
- Scientifically accurate, containing enough in-depth material for those students aiming for Merit or Excellence

Teachers Resource

This full colour resource features complete answers overlaid on the actual pages of the NCEA Level 2 Biology Workbook.

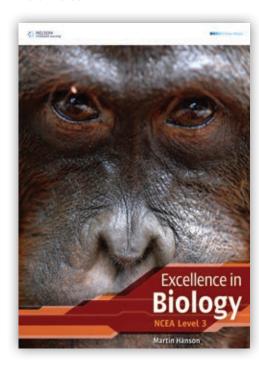
Biology Workbook NCEA Level 2 9780170262293 \$29.95 **Biology Workbook NCEA Level 2 Teacher's Resource CD** 9780170262309 \$79.95

EXCELLENCE IN BIOLOGY NCEA LEVEL 3

SECOND EDITION



Martin Hanson



Contact Us for Class Set Pricing



Excellence in Biology Level 3 9780170233286

\$59.95

Excellence in Biology NCEA Level 3 has been fully updated to take the realignment of Level 3 Biology into account. This resource has a highly visual approach and presentation. Hundreds of specially drawn illustrations, all in full colour, help students to understand biological concepts. The text includes comprehensive coverage of external NCEA Level 3 Achievement Standards and also the internally-assessed 'How animals maintain a stable internal environment' and 'Human manipulation of genetic material and its biological implications'. The content is biologically accurate and rigorous, and maximum priority is given to linking concepts. Each chapter concludes with a summary of essential facts and ideas, and a quick self-test of basics. Extension material is also provided for deeper understanding.

Contents

Part I: Responses of Organisms to their Environment

- 1 Introduction to behaviour
- 2 Biological clocks
- 3 Seasonal behaviour and photoperiodism
- 4 Orientation in animals
- 5 Orientation in plants: Tropisms
- 6 Competition
- 7 Exploitation: Predation and parasitism
- 8 Cooperative interactions and commensalism
- 9 Courtship, parental care and life history strategies

Part II: Homeostasis in Animals

- 10 Introduction to homeostasis
- 11 Nervous communication and integration
- 12 Effectors: Muscle
- 13 Hormonal regulation
- 14 Control of body water: Osmoregulation
- 15 Control of blood sugar
- 16 Control of blood pressure
- 17 Control of respiratory gases
- 18 Regulation of body temperature

Part III: Evolution in a New Zealand Context

- 19 Evolutionary basics: Lamarck, Darwin and Weisman
- 20 Genes in populations
- 21 How do new species arise?
- 22 Patterns in evolution

Part IV: Human Evolution

- 23 Primate legacy
- 24 A peculiar ape
- 25 Prelude to fossils: Rocks and dating
- 26 The first hominins: The Australopithecines
- 27 The first stone tools: Homo habilis
- 28 The use of fire: Homo erectus
- 29 'Archaic Homo sapiens': Homo heidelbergensis, H. neanderthalensis and the Denisovans
- 30 The first modern humans
- 31 The origin and spread of Homo sapiens
- 32 The Neolithic revolution: Agriculture and settlements

Part V: Biotechnology

- 33 Recombinant DNA technology: Tools of the trade
- 34 Applications of techniques in biotechnology

Glossary

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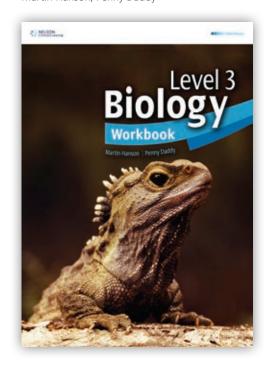
LEVEL 3 BIOLOGY WORKBOOK

FIRST EDITION





Martin Hanson, Penny Daddy



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Level 3 Biology Workbook 9780170233262 \$29.95 Level 3 Biology Workbook **Teacher's Resource CD** 9780170241939 \$79.95 Level Three Biology Workbook is a complete workbook covering the externally-assessed Achievement Standards, with text and NCEA-type questions. It is lavishly illustrated in full colour. Each Unit begins with a list of key terms and ends with revision questions.

The book is in three parts, each ending with NCEA-type questions.

The workbook can be used independently, or alongside Excellence in Biology NCEA Level 3.

Contents

Demonstrate understanding of the responses of plants and animals to their external environment

- Introduction to behaviour
- Biological clocks
- Seasonal behaviour and photoperiodism
- 4 Orientation in animals
- 5 Orientation in plants: Tropisms
- 6 Competition
- 7 Exploitation: Predation, grazing and parasitism
- Cooperative interactions and commensalism
- Courtship, parental care and life history strategies

Exam-type questions for Part 1

Demonstrate understanding of evolutionary processes leading to speciation

- 10 Evolutionary basics
- 11 Genes in populations
- 12 How do new species arise?
- 13 Patterns in evolution

Exam-type questions for Part 2

Demonstrate understanding of trends in human evolution

- 14 Primate legacy
- 15 A peculiar ape
- 16 Prelude to fossils: Rocks and dating
- 17 Small-brained, bipedal apes: The first Hominins
- 18 The first stone tools: Homo habilis
- 19 The use of fire: Home erectus
- 20 'Archaic Homo sapiens': H. neidelbergensis, H. neanderthalensis and the Denisovans
- 21 The first modern humans
- 22 The origin and spread of Homo sapiens
- 23 The Neolithic revolution: Agriculture and settlements

Exam-type questions for Part 3

Answers for Revision questions

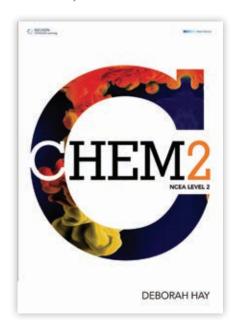
Teacher's Resource

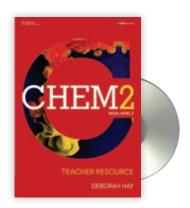
This is a full colour teacher's resource with complete answers overlaid on the actual pages of the workbook.

CHEM 2 NCEA LEVEL 2



Deborah Hay





Chem 2 summarises all of NCEA Level 2 Chemistry. It includes full theory, practical work and exam questions for each external standard and brief outlines with important notes for each internal standard. Chem 2 also includes fully worked examples so students can see how to work to an Excellence level, whilst also including Nature of Science literacy tasks. Finally, to help students prepare for their external examinations, there is a practice assessment of each standard with a Grade Score Marking schedule.

Chem 2, NCEA Level 2			
9780170260107 Due November 2013		\$29.95	
Chem 2, NCEA Level 2 Teacher Resource CD			
9780170260114			

Contents

Demonstrate understanding of bonding, structure, properties and energy changes

Learning outcomesShape and polarityPre-test – What do you
know?Properties of ionic solidsAtomic structureProperties of metallic solids

Electron arrangements so

lonic bonding – putting ions together

Metallic bonding

Covalent bonding
Shapes of molecules
Polar or non-polar

Electronegativity

solids

Properties of covalent network solids Exothermic and endothermic reactions

Enthalpy Bond enthalpies Exam-type questions

2 Demonstrate understanding of the properties of selected organic compounds

Learning outcomes Geometric isomers Pre-test – What do you Alkanes know? Alkenes What is organic chemistry? Polymerisation Why is carbon so special? Alcohols Naming organic Haloalkanes compounds Carboxylic acids Empirical and molecular Amines

formula Exam-type questions

3 Demonstrate understanding of chemical reactivity

Learning outcomes Changing pressure Pre-test – What do you Changing temperature know? Catalysts Rates of reaction Calculations involving Kc Reversible reactions Acids and bases Equilibrium What is pH? The equilibrium constant, Acid calculations Base pH calculations Changes to equilibria Acid base explanations Le Chatelier's principle Exam-type questions

Internal Standard review

2.1 Carry out quantitative analysis

Changing concentration

- 2.2 Carry out procedures to identify ions in solution
- 2.3 Demonstrate understanding of the chemistry used in the development of a current technology
- 2.7 Demonstrate understanding of oxidation-reduction

Practice assessment section

91164 Demonstrate understanding of bonding, structure, properties and energy changes

91165 Demonstrate understanding of the properties of selected organic compounds

91166 Demonstrate understanding of chemical reactivity

Glossary of terms

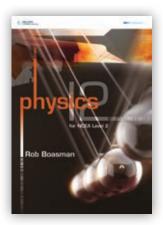
PHYSICS 12 FOR NCEA LEVEL 2

FIRST EDITION





Rob Boasman



Through diagrams and discussions **Physics** 12 for NCEA Level 2 explores the startling discoveries of the past and reveals how they apply to the wonders of the present day world around us. Worked examples guide students through the styles, techniques and application of concepts and formula, and question banks help to develop students' ability to describe and explain observed events using scientific language.

Key Features of the Textbook and Workbook

- Complement each other side by side or ... can be used individually.
- Written specifically for the Level 2, 2012 realignment.

Contents

- Introduction
 - Quantities, units, symbols, number
- Experiential techniques
 - Techniques, errors and graphing
- 3 Demonstrate understanding of waves
- 4 Demonstrate understanding of mechanics
- Demonstrate understanding of atomic and nuclear physics
- Demonstrate understanding of electricity Appendix



Physics 12 for NCEA Level Two Textbook 9780170195980

NEW

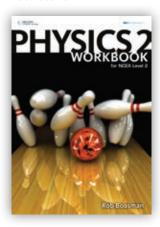
PHYSICS 2 **WORKBOOK FOR** NCEA LEVEL 2

FIRST EDITION





Rob Boasman



This workbook provides additional NCEA style questions which enable students to establish a firmer foundation to their knowledge and application of physics concepts before leading them onto more complex challenges.

Key Features

- Highly visual, full colour throughout.
- Detailed illustrations support a visual approach to learning.
- Highlighted key laws and equations.
- Easy-to-read and understand explanations of physics concepts.
- Fully worked examples.
- Straightforward preliminary problems to practice new concepts.
- Extensive NCEA-style problems.
- Nature of Science concepts incorporated.
- Instructions on the use of calculators to handle data in physics experiments.
- Written by a practising teacher to fully comply with the requirements of NCEA Physics at Level 2.

Contents

- Understanding the physical world Quantities, units, symbols, number
- Experimental techniques Techniques, errors and graphing
- Light and waves
- 4 Mechanics
- Atomic and nuclear physics
- Electricity

Appendices Selected answers

Physics 2 Workbook for NCEA Level Two 9780170195997 \$29.95

NEW

PHYSICS 2 TEACHER **RFSOURCE**

FIRST EDITION





Rob Boasman



This Teacher Resource is an essential resource to support the teaching of Level 2 Physics.

The Physics 12 textbook answers are presented in full. Workbook answers are overlaid on the actual pages of the Physics 2 Workbook for NCEA Level 2, encouraging easy marking in the classroom. Multiple display platforms are possible, including data projector, electronic whiteboard, print and intranet

Key Features

- Provides fully worked answers to both textbook and workbook.
- Ease of marking in the classroom.
- Mutiple display platforms possible:
 - data projector
 - electronic whiteboard
 - print
 - intranet.

Physics 2 Teacher Resource 9780170196000

\$79.95

BIOLOGY NCEA LEVEL 2 YEAR 12



David Relph, Series Editor: George Hook



Pathfinder Biology Year 12 provides a complete, highly illustrated, compact textbook for students taking New Zealand senior school Biology in Year 12. It covers all of the topics, scientific concepts, processes and skills for Year 12 of the New Zealand Curriculum. The concisely written text does this with the support of over 300 colour photos, numerous detailed and accurate diagrams, and a wealth of well-tried assessment exercises. Separate units deal with current Biological Issues.

New Zealand Pathfinder Biology NCEA Level 2 Year 12 9780170180931

\$43.95

\$43.95

BIOLOGY NCEA LEVEL 3 YEAR 13





Sue Jarvis and Ann Schofield Series editor: George Hook



This book completes the senior school Biology course and provides a highly illustrated, compact text for students in Year 13 of New Zealand secondary school Biology courses.

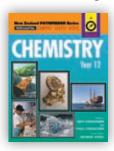
New Zealand Pathfinder Biology NCEA Level 3 Year 13 9780170131339

CHEMISTRY NCEA LEVEL 2 YEAR 12





May and Paul Croucher Series editor: George Hook



This edition of Pathfinder Chemistry Year 12 has been revised to ensure the content is linked to the 2006 Achievement Standards for Level 3 NCEA Chemistry. The book provides a comprehensive guide for Year 12 Chemistry students. It is designed so that students can readily understand and recall essential Chemistry facts, formulae, principles and processes.

New Zealand Pathfinder Chemistry NCEA Level 2 Year 12

9780170235716

\$43.95

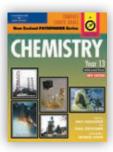
CHEMISTRY NCEA LEVEL 3 YEAR 13

REVISED EDITION





May and Paul Croucher Series editor: George Hook



This edition of Pathfinder Chemistry Year 13 has been revised to ensure the content is linked to the 2006 Achievement Standards for Level 3 NCEA Chemistry. The book provides a comprehensive guide for Year 13 Chemistry students. It is designed so that students can readily understand and recall essential Chemistry facts, formulae, principles and processes.

New Zealand Pathfinder Chemistry NCEA Level 3 Year 13 9780170131315 \$43.95

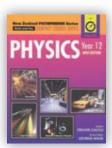
PHYSICS NCEA LEVEL 2 YEAR 12

NEW EDITION





Trevor Castle and George Hook



This book provides a complete guide for Year 12 Physics students. It is designed so that students can understand and recall essential facts, formulae and principles.

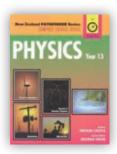
New Zealand Pathfinder Physics NCEA Level 2 Year 12 9781869463120

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PHYSICS YEAR 13



Trevor Castle and George Hook



This book provides a complete guide for Year 13 Physics students. It is designed so that students can understand and recall essential facts, formulae and principles.

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NELSON ISCIENCE FOR THE AUSTRALIAN CURRICULUM YEARS 7–10



Gary Bass, Sandra Bishop, Richard Cackett, Neil Champion, Anna Davis, Eleanor Gregory, David Hall, Andrew Hansen, Elizabeth McKenna, Sue Rogger-Amies, Deb Smith, Rebecca Smyth, Annie Termaat and Katrina Walker



The *Nelson iScience* series is a truly 21st century science resource for students.

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Contents

Year 7

- Unit 1 What is science?
- Unit 2 Inquiring with science
- Unit 3 Classification
- Unit 4 Ecosystems
- Unit 5 Pure and impure substances
- Unit 6 Separating substances
- Unit 7 Our place in space
- Unit 8 Renewable and non-renewable resources
- Unit 9 The water cycle
- Unit 10 Forces

Year 8

- Unit 1 Cells
- Unit 2 Systems
- Unit 3 Reproduction
- Unit 4 Particles
- Unit 5 Types of substances
- Unit 6 Chemical changes
- Unit 7 Rocks
- Unit 8 Energy

Year 9

- Unit 1 Internal relationships: coordinating complex organisms
- Unit 2 Internal relationships: defending the body
- Unit 3 External relationships: how organisms build ecosystems
- Unit 4 Changing ecosystems
- Unit 5 The story of the atom
- Unit 6 New substances
- Unit 7 Chemical reactions in living and non-living systems
- Unit 8 Our changing planet
- Unit 9 Communicating with energy

Year 10

- Unit 1 Genetics: chemistry from our ancestors
- Unit 2 Evolution
- Unit 3 Organising and classifying elements: understanding structure
- Unit 4 What a reaction!
- Unit 5 The Big Universe
- Unit 6 Global systems
- Unit 7 Force to go
- Unit 8 Energy and systems

Teacher's Edition

A comprehensive range of teacher resources are available in printed form.

- Teacher's Edition of the book with page-by-page wraparound information.
- Secure unit tests and answers, curriculum grids and teaching plans.
- How to use a wiki in the classroom.
- How to use a blog in the classroom.

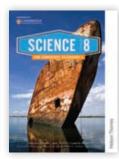
Nelson iScience for the Australian Curriculum Teacher's Editions		
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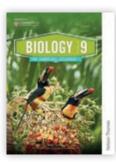
SCIENCE FOR CAMBRIDGE SECONDARY 1

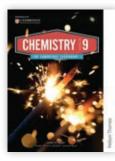


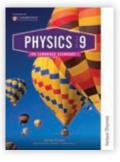
Darren Forbes, Richard Fosbery, Ann Fullick, Viv Newman, Roger Norris, Lawrie Ryan











Written specifically for Cambridge International Examinations' revised Secondary 1 syllabus, this series provides complete curriculum framework coverage for Stages 7–9.

This series has been planned and written by experienced authors, including authors of our successful Cambridge IGCSE science titles. *Science for Cambridge Secondary 1* provides a seamless link into Cambridge IGCSE, fully preparing students' and maximising their potential.

Nelson Thornes are working with Cambridge International Examinations towards endoresement of these titles.

Key Features of the Textbooks

- Comprehensive coverage of the syllabus framework in double-page spreads, with each spread emphasising the key learning points.
- A dedicated section on Scientific Enquiry (Stage 7) and Scientific Enquiry material integrated throughout, with Practical activities to develop the required skills.
- Key terms students need to know are clearly highlighted in the text.
- Science in context! spreads at the start of each chapter put learning into real-world contexts and challenge students to think about wider issues.
- Examination-style questions at the end of each chapter prepare students for the checkpoint test and introduce them to the IGCSE-style questions.
- Three separate Stage 9 books covering Biology, Chemistry and Physics offering greater flexibility for teaching the separate sciences.
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Student's CD-ROM included with each Textbook containing:

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- Revision material including multiple choice questions with answers and feedback (Test yourself).
- Exam practice students can view sample examinationstyle answers with examiner comments and feedback (On your marks).

Workbooks contain:

- engaging exercises and homework to support the curriculum framework
- space for students' working and answers as well as for teacher feedback.

Teacher's CD-ROM contains:

- Comprehensive teacher's support for all three Stages in over 800 editable Word files and PDFs.
- Answers to all Student Book Summary questions, Examination-style questions and workbook exercises.
- Lesson support, including lesson planning with sample lesson plans and with common student misconceptions highlighted and addressed.
- Practical support, including equipment lists and practical worksheets at two levels (differentiated): Core and Extension.
- Creative homework tasks and exercises.
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Physics Workbook	
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Teacher's CD-ROM	
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CAMBRIDGE CHECKPOINT SCIENCE 1, 2 & 3



Peter D Riley



This bestselling series has been reorganised and updated to ensure teachers can deliver the revised Cambridge Secondary 1 programme for science with confidence.

In this new edition the material required to teach stage 7 of the science framework, covering Biology, Physics and Chemistry, is now in a single handy volume. The book has three sections, covering Biology, Physics and Chemistry, so teachers can still teach the three sciences separately if they prefer. The introductory chapter includes a new section on Scientific Enquiry, reflecting the focus of the new framework.

- Ideal preparation for the Cambridge Checkpoint Tests.
- New 'scientific enquiry spotters' feature identifies questions which focus on these skills

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IGCSE BIOLOGY

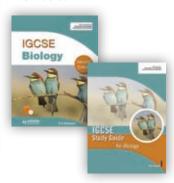
SECOND EDITION



Endorsed by University of Cambridge

International Examinations

D G Mackean



To ensure full coverage of the syllabus and help students attain optimal grades, IGCSE Biology contains:

- New chapters on Applied Genetics, Conservation, and Observation and Experiment.
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- Additional information on topics such as B and T lymphocytes, infertility, performance-enhancing hormones, fluoridation of water supplies, impact of hunting and over-fishing, and global warming.

IGCSE Study Guide for Biology

Dave Hayward

This Study Guide has been written especially for students preparing from the University of Cambridge International Examination IGCSE Biology syllabus (Core and Extended curriculum). It provides all the explanation and advice students need to study efficiently for the exam.

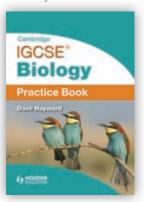
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NEW

CAMBRIDGE IGCSE BIOLOGY PRACTICE BOOK

uk m

Dave Hayward



This Practice Book supports the IGCSE Biology Textbook.

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- Contains a wealth of levelled questions, including Stretch and Challenge for higher ability students.
- Plenty of exam-style questions and actual exam questions from past Cambridge exam papers for exam success.

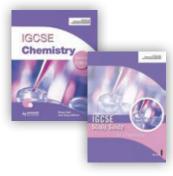
IGCSE Biology Practice Book 9781444180459 \$24.95

IGCSE CHEMISTRY

SECOND EDITION



B Earl and L D R Wilford



This highly respected and valued textbook has been the book of choice for IGCSE students since its publication. This new edition, complete with CD-ROM, continues to provide comprehensive, upto-date coverage of the core and extended curriculum topics specified in the IGCSE Chemistry syllabus, in a bright and attractive format. Providing full coverage of the syllabus and helping students attain optimal grades, the book is supported by a CD-ROM containing extensive revision and exam practice questions, background information and invaluable reference material.

- Fully revised and updated for complete curriculum coverage.
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IGCSE Study Guide for Chemistry

R.A. Berry

This Study Guide has been written especially for students preparing from the University of Cambridge International Examination IGCSE Chemistry syllabus (Core and Extended curriculum). It provides all the explanation and advice students need to study efficiently for the exam.

IGCSE Chemistry
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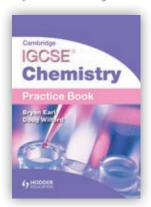
IGCSE Study Guide for Chemistry
9780719579028 \$29.95

NEW

CAMBRIDGE IGCSE CHEMISTRY PRACTICE BOOK

uk m

Bryan Earl and Doug Wilford



This Practice Book supports the IGCSE Chemistry Textbook.

- The perfect resource to use throughout the course to ensure you learn the topics and practise the content of the Cambridge IGCSE syllabus.
- Contains a wealth of levelled questions, including Stretch and Challenge for higher ability students.
- Plenty of exam-style questions and actual exam questions from past Cambridge exam papers for exam success.

IGCSE PHYSICS

SECOND EDITION

uk n

Tom Duncan and Heather Kennett



To ensure full coverage of the syllabus and help students attain optimal grades, IGCSE Physics contains:

- A wealth of new material with superb,clear presentation, as in the previous edition.
- Investigations suitable for connection to a datalogger and computer.
- Practical work advice, plus suggestions for more advanced investigations.

IGCSE Study Guide for Physics

Mike Folland

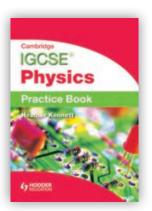
This Study Guide has been written especially for students preparing from the University of Cambridge International Examination IGCSE Physics syllabus (Core and Extended curriculum). It provides all the explanation and advice students need to study efficiently for the exam.

NEW

CAMBRIDGE IGCSE PHYSICS PRACTICE BOOK

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Heather Kennett



This Practice Book supports the existing and bestselling second edition of IGCSE Physics Textbook.

- The perfect resource to use throughout the course to ensure you learn the topics and practise the content of the Cambridge IGCSE syllabus.
- Contains a wealth of levelled questions, including Stretch and Challenge for higher ability students.
- Plenty of exam-style questions and actual exam questions from past Cambridge exam papers for exam success.

IGCSE Chemistry Practice Book

9781444180442 \$24.95

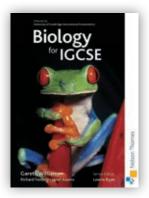
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BIOLOGY FOR IGCSE



Richard Fosbery, Janet Adams, Gareth Williams



Biology for IGCSE is endorsed by CIE and completely matches specification 0610. It is written in a clear and direct manner by a team of experienced authors and CIE examiners, making it ideal for international school students. It takes an exam focus and features include exam-style questions, activities, case studies, key points & did you know?

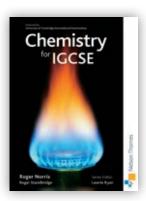
Key Features

- Content is presented clearly and concisely to make it accessible to international school students with wide ranging backgrounds.
- The examiners give tips and hints throughout whicht address common misconceptions and errors.
- Each chapter has a section of exam-style questions, written by CIE IGCSE Principal Examiners, which closely match papers 1, 2 and 3.
- Each title has a section dedicated to the Alternative to Practical paper prepared by an examiner for Paper 6.
- All titles have a revision checklist whicht covers the whole CIE IGCSE syllabus to make sure students know what they have covered
- Topics are presented in an innovative 'lesson on a page' double page spread format, providing all pertinent material and emphasising the key learning points.

CHEMISTRY FOR IGCSE



Roger Norris, Roger Standbridge



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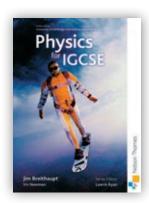
Key Features

- Content is presented clearly and concisely to make it accessible for international school students with wide ranging backgrounds.
- The examiners give tips and hints throughout that address common misconceptions and errors.
- Each chapter has a section of exam-style questions, written by CIE IGCSE Principle Examiners, that closely match papers 1, 2 and 3
- Each title has a section dedicated to the Alternative to Practical paper prepared by an examiner for Paper 6.
- All titles have a revision checklist that covers the whole CIE IGCSE syllabus to make sure students know what they have covered
- Topics are presented in an innovative 'lesson on a page' double page spread format, providing all pertinent material and emphasizing the key learning points.

PHYSICS FOR IGCSE



J Breithaupt, Viv Newman



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- Content is presented clearly and concisely to make it accessible for international school students with wide ranging backgrounds.
- The examiners give tips and hints throughout that address common misconceptions and errors.
- Each chapter has a section of exam-style questions, written by CIE IGCSE Principle Examiners, that closely match papers 1, 2 and 3
- Each title has a section dedicated to the Alternative to Practical paper prepard by an examiner for Paper 6.
- All titles have a revision checklist that covers the whole CIE IGCSE syllabus to make sure students know what they have covered.
- Topics are presented in an innovative 'lesson on a page' double page spread format, providing all pertinent material and emphasizing the key learning points.

Biology for IGCSE 9781408500170

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Chemistry for IGCSE 9781408500187

\$62.95

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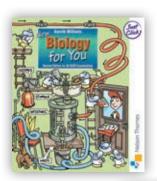
Physics for IGCSE 9781408500194

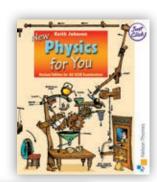
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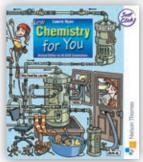
NEW BIOLOGY, NEW CHEMISTRY AND NEW PHYSICS FOR YOU

uk m

Biology: Gareth Williams Chemistry: Lawrie Ryan Physics: Keith Johnson







This tried and tested series has now been updated to match the new GCSE Science specifications, including IGCSE. Well known for its clear layout of content that expresses even the most difficult scientific content in a clear and engaging way, this series is a firm favourite with science teachers and students alike.

Key Features

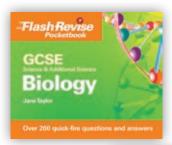
- Science led learning instead of board specific assessment focus.
- Wide range of subject content to ensure a good breadth of topics covered no matter what GCSE/IGCSE specifications is being studied.
- Motivate your students whilst maintaining scientific rigour with lively and engaging content, packed with cartoons and rhymes to thoroughly explain ideas.
- Prepare your students for their exams with exam-style questions at the end of each topic plus guidance and advice with 'How Science Works' and 'Doing your Homework' sections.

New Biology for You 9781408509203	\$69.95
New Chemistry for You 9781408509210	\$69.95
New Physics for You 9781408509227	\$69.95

GCSE SCIENCE FLASH REVISE POCKETBOOKS

uk m

Biology: Jane Taylor Physics: David Sang





Fully updated for the new GCSE science specifications, *Flash Revise Pocketbooks* provide a fun method for students to understand the essential content of GCSE science that can make a real grade difference. They comprise quick-fire questions and answers for students to test their knowledge of the three sciences.

There are 50 colour cards in eachy set. Each card focuses on a concept or topic examined at GCSE, with four short questions on the front, and provides a brief explanation of the concept or topic and the answers to the questions, together with an examiner's note, on the back.

Biology Topic areas

Supplying cells • Control in animals and plants • Ecology • Variation, inheritance and evolution • The working plant • Health in balance

Physics Topic areas

Electricity & magnetism • Forces & motion • Waves • Earth & space • Atomic physics • Energy

GCSE Science Biology Flash Revise Pocketbook		
9780340992272	\$17.95	
GCSE Science Physics Flash Revise Pocketboo	k	
9780340992296	\$17.95	

EDEXCEL INTERNATIONAL GCSE AND CERTIFICATE IN **BIOLOGY, CHEMISTRY AND PHYSICS**

Biology: Roger Delpech, Erica Larkcom and Kathy Evans Chemistry: Graham Hill and Robert Wensley

Physics: Nick England and Nicky Thomas



Provide complete coverage of the required content and skills with this stimulating new series.

The Student's Books will build your students' confidence with clear scientific content and questions presented at the right level. Each book includes a free CD-ROM with tutorials, guizzes, and answers to all the guestions.

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- Improve understanding with Exam-Style questions and extension activities for higher ability students.
- Build skills and focus on practical work with coverage of all relevant practicals plus added practical hints and guidance.

The accompanying Practice Books are filled with worked examples and mark schemes to how students how to improve. They also include lots of practice questions for your students to work through on their own. Answers are available for free online.

They are working with Edexcel for endorsement for the Textbooks, which have been written for both the International GCSE and the UK Certificate.

Biology		Physics	
Textbook 9781444179125	Due July 2013 \$59.95	Textbook 9781444179163	Due July 2013 \$59.95
Practice Book 9781444179187	Due July 2013 \$29.95	Practice Book 9781444179224	Due July 2013 \$29.95
Chemistry			
Textbook 9781444179149	Due July 2013 \$59.95		
Practice Book 9781444179200	Due July 2013 \$29.95		

Phone: 0800 449725

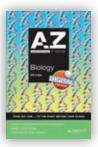
A-Z HANDBOOKS BIOLOGY, **CHEMISTRY AND PHYSICS**

FOURTH EDITION



Biology: Bill Indge Chemistry: Andrew Hunt

Physics: David Sangand Mike Chappel







These fantastic resources written by senior examiners provide your students with related terms, clear concise entries and examiner's tips to ensure exam success

Each title includes free access to an online version of the handbook and extra revision resources

- For new students -- terms and concepts clearly explained.
- Throughout the course -- full explanations of important and challenging concepts that will help you tackle your course assignments with confidence.
- For focused exam revision -- detailed revision lists for each exam board and invaluable advice from a leading examiner, both online and in the book.

A-Z Biology Handbook 9780340990995	\$46.95
A-Z Chemistry Handbook 9780340991008	\$46.95
A-Z Physics Handbook 9780340991091	\$46.95

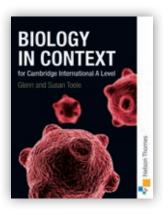
BIOLOGY, CHEMISTRY AND PHYSICS IN CONTEXT

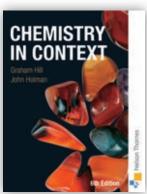
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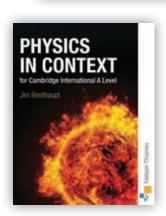




Biology: Glen Toole, Susan Toole Chemistry: Graham Hill, John Holman Physics: Jim Breithaupt







Written by renowned best-selling authors, each title covers the main theoretical syllabus concepts, with an emphasis on practical skills. Broken down into spreads, the books are written with the international student in mind and use clear, direct language to help students grasp concepts.

As well as supporting the student in acquiring knowledge, they develop their understanding by providing a context to their studies.

In-text and examination questions provide reinforcement and practice opportunities, making Biology, Chemistry and Physics in Context the ideal texts for all students studying A Level Biology, Chemistry and Physics.

Key Features

- Summary tests throughout the students to check their understanding.
- Key words highlighted and presented in a Glossary at the end of the book.
- Extension material, clearly distinguished.
- Exam-style questions at chapter ends to enable practice and consolidate learning (outline answers at the end of the book).

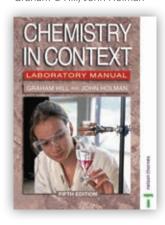
CHEMISTRY IN CONTEXT LABORATORY MANUAL

FIFTH EDITION





Graham C Hill, John Holman



Key Features

- Completely revised and rewritten to give full coverage of the new Advanced level specifications
- Laboratory Manual teachers notes will be available on line, giving guidance and notes on the investigations.
- Features of the text-linked website.
- Detailed answers and marking schemes to questions in the core text.
- Teachers notes with additional crossreferencing tables.
- Detailed contents list with links to external websites

Biology in Context for Cambridge International A Level 9781408515228

Physics in Context for Cambridge International A Level 9781408515215 \$125.95

Chemistry in Context for Cambridge International A Level 9781408514962 \$125.95

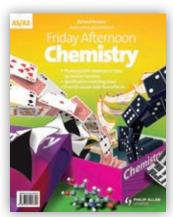
Chemistry in Context Laboratory Manual 9780174483076 \$62.95

FRIDAY AFTERNOON RESOURCE PACKS + CD ROM BIOLOGY, CHEMISTRY & PHYSICS

uk S

Jill Kenny, David Greenwood, Richard Pember, David Brodie, Rebeka Hasan







Fully photocopiable resources to liven up revision sessions.

These *Friday Afternoon Resource Packs* provide a range of fun and engaging activities, which employ a variety of learning styles, enabling students to enjoy lessons whilst revising core topics. All necessary definitions and answers to questions posed in the activities are included.

This pack is fully photocopiable and is provided in both ring binder and CD format.

The activities have been chosen to allow students to apply their knowledge using a variety of learning styles, and to review and reinforce their understanding of key terms and concepts. They include a host of popular games like bingo, dominoes and a range of card games. These enjoyable activities make revision exercises fun and can be used at any point within a lesson. The pack is fully photocopiable and once the teacher has a set of cards prepared they can be used over and over with all groups, bringing variety and fun to any revision session. The free CD-ROM provides a PDF version of the pack for easy printing. Also included in the pack: a specification matching chart to allow easy integration into any course, answers, suggested timings and teaching notes.

- Provides a range of enjoyable and engaging activities to develop learning styles and reinforce knowledge and understanding of key concepts.
- Activities can be adapted for individual, paired or group work
- Activities can be used flexibly in revision sessions or throughout the course.

Friday Afternoon AS/A2 Biology 9780340966631	\$299.95
Friday Afternoon AS/A2 Chemistry 9780340991800	\$299.95
Friday Afternoon AS/A2 Physics 9780340967973	\$299.95
Friday Afternoon AQA GCSE Science & Additional Science 9781444108422	\$299.95
Friday Afternoon BTEC First Applied Science Resource Pack 9781444146691	\$299.95

BIOLOGY, CHEMISTRY AND PHYSICS FOR THE IB **DIPLOMA**



Biology: C J Clegg

Chemistry: Chris Talbot, Richard Harwood and **Christopher Coates**

Physics: John Allum, Christopher Talbot



Provide the support for successful and in-depth study, with chapters presented in syllabus order, past IB exam paper questions and links to Theory of Knowledge.

Material for Higher Level and Standard Level is clearly identified and key terms are simply defined, with examples drawn from a wide range of international sources.

Chapters open with a list of 'Starting points' that summarise essential concepts. Photographs, electron micrographs and fullcolour illustrations complement the text, and illustrate principles and processes in context. Topics and Options coverage accurately reflect the Objectives and Command terms in which syllabus assessment statements are phrased.

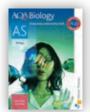
- Improve exam performance, with plenty of questions, including past paper exam questions.
- Link to Theory of Knowledge and provide opportunities for cross-curriculum study.
- The Options are covered on a CD for Biology and Chemistry, and a website fro1m Physics.

Biology for the IB Diploma 9780340926529	\$112.50
Chemistry for the IB Diploma 9780340985052	\$112.50
Physics for the IB Diploma 9781444146523	\$112.50

AQA BIOLOGY AS AND A2

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Gareth Williams





Key Features

- Feel confident that you are covering exactly what is required of the specification with the only endorsed and approved resources for AQA Biology AS.
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- Essential examiner advice highlighting common errors as well as top tips on exam preparation help students understand the examiner's expectations.

AQA Biology AS 9780748782758	\$80.50
AQA Biology A2 9780748798131	\$80.50

AQA HUMAN BIOLOGY AS AND A2





Pauline Lowrie





Key Features

- Feel confident that you are covering exactly what is required of the specification with the only endorsed and approved resources for AQA Human Biology AS.
- Learning Objectives, clearly referenced to the related statements in the AQA specification, let students know exactly what they'll need to learn and understand in that topic.
- Essential examiner advice highlighting common errors as well as top tips on exam preparation help students understand the examiner's expectations.

AQA CHEMISTRY AS AND A2

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Ted Lister, Janet Renshaw





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- Essential examiner advice highlighting common errors as well as top tips on exam preparation help students understand the examiner's expectations.

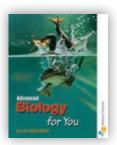
AQA Chemistry AS 9780748782802	\$80.50
AQA Chemistry A2 9780748782796	\$80.50

AQA Human Biology AS	
9780748782772	\$80.50
AQA Human Biology A2	
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ADVANCED **BIOLOGY FOR YOU**

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Gareth Williams



Advanced Biology for You has been carefully designed to be inviting, interesting and motivating to the AS/A2 student, with features that make it highly supportive of individual learning.

Key Features

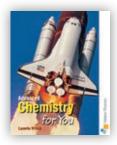
- A large number of questions are included, for students to practice and develop their competence, including exam-style questions.
- 'Biology at Work', 'Key Skills in Biology' and 'Study Skills' sections give many applications of biology throughout the book.
- Each chapter has a concise summary of the work covered.

ADVANCED CHEMISTRY FOR YOU

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Key Features

- A large number of guestions are included, for students to practice and develop their competence, including exam-style
- 'Chemistry at Work', 'Key Skills in Chemistry', 'Practical Skills' and 'Study Skills' sections give many applications of chemistry throughout the book.
- Each chapter has a concise summary of the work covered.

ADVANCED PHYSICS FOR YOU

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Keith Johnson, Simmone Hewett, Sue Holt,



Advanced Physics for You has been carefully designed to be inviting, interesting and motivating to the student, with features that make it highly supportive of individual learning. It fully covers the new AS-Level and core topics of all A2 specifications.

Key Features

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- The key points are clearly highlighted, with useful end-of-chapter summaries, and a friendly reading level throughout.
- Over 200 worked examples help you throughout the course, with a large number of questions for you to practise and so gain in confidence and do better in your exams.
- Questions on each topic begin with simple straightforward questions, and there are 7 sections of past exam questions. A 'Hints' section gives you help when it's needed, and the answers are included.
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 - Study Skills
 - Revision and Examination Technique
 - Practical Skills, and
 - Help with Maths.

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AQA PHYSICS A AS AND A2

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J Breithaupt





Key Features

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- Essential examiner advice highlighting common errors as well as top tips on exam preparation help students understand the examiner's expectations.

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AQA Physics A A2 9780748782819	\$80.50

AQA PHYSICS B AS AND A2

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Mike Bowen-Jones, Ken Price





Key Features

- Learning Objectives, clearly referenced to the related statements in the AQA specification, let students know exactly what they'll need to learn and understand in that topic.
- Essential examiner advice highlighting common errors as well as top tips on exam preparation help students understand the examiner's expectations.

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9780748782833	\$80.50
AQA Physics B A2	
9780748782840	\$80.50

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C J Clegg and Mary Jones



This textbook fits with *Cambridge* International AIAS - Level Biology Revision Guide at right.

Cambridge International A/AS-Level Biology Due early 2014

Textbook

9781444175349

\$89.95

Teacher Resource CD

9781444181425

\$299.95

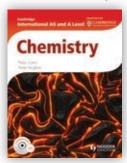
NEW

CAMBRIDGE INTERNATIONAL A/AS-LEVEL CHEMISTRY





Peter Cann, Peter Hughes and David Bevan



This textbook fits with Cambridge International AIAS Level Chemistry Revision Guide at right.

Cambridge International A/AS-Level Due early 2014 Chemistry

Textbook

9781444181333 \$89.95

\$299.95

Teacher Resource CD

9781444181357

CAMBRIDGE INTERNATIONAL A/AS-LEVEL BIOLOGY **REVISION GUIDE**





Mary Jones

Endorsed by University of Cambridge International Examinations



This Cambridge International AIAS-level Biology Revision Guide provides examfocused text to guide students through the content and skills of the course to prepare them for their AS and A-level exams.

Key Features

- The Introduction contains an overview of the course and how it is assessed, advice on revision and taking the examination
- The Content Guidance section provides a summary of the facts and concepts that you need to know for the examination.
- The Experimental Skills & Investigations section explains the data-handling skills you will need to answer some of the guestions in the written papers. It also explains the practical skills that you will need in order to do well in the practical examination
- The Questions and Answers section contains a specimen examination paper for you to try, followed by a set of student's answers for each question, with comments from an examiner to help you identify exactly what is required in the exam

Contents

Introduction • AS Content Guidance • AS Experimental Skills & Investigations • AS **Ouestions & Answers**

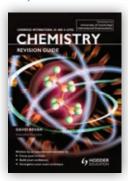
Cambridge International A/AS-Level Biology Revision Guide 9781444112672 \$51.50

CAMBRIDGE INTERNATIONAL A/AS-LEVEL CHEMISTRY **REVISION GUIDE**



Mary Jones

Endorsed by University of Cambridge International Examinati



This Cambridge International AIAS-level Chemistry Revision Guide provides examfocused texts to guide students through the content and skills of the course to prepare them for their AS and A-level exams. Each guide in the series provides:

Key Features

- Introduction: containing an overview of the course and how it is assessed, advice on revision and taking the examination
- Content Guidance: provides a summary of the facts and concepts that you need to know for the examination.
- Skills: explains the data-handling skills you will need to answer some of the questions in the written papers. It also explains the practical skills that you will need in order to well in the practical examination.
- Questions and Answers: contains a specimen examination paper for you to try, followed by a set of student's answers for each question, with comments from an examiner to help you identify exactly what is required in the exam.

Contents

Introduction • Content Guidance • Experimental Skills and Investigations • Questions and Answers • AS Exemplar paper A2 Exemplar paper

Cambridge International A/AS-Level Chemistry Revision Guide 9781444112689 \$51.50

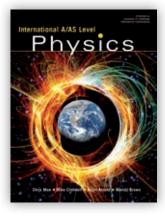
CAMBRIDGE INTERNATIONAL A/AS-LEVEL **PHYSICS**





Endorsed by University of Cambridge International Examinatio

Mike Crundell, Chris Mee, Brian Arnold and Wendy Brown



Cambridge International AIAS-level Physics is a revision of AS/A2 Physics and has been carefully updated for the University of Cambridge International Examinations course for A and AS Level Physics (9702). It has been fully endorsed by CIE.

Key Features

- Sections open with a list of 'Learning outcomes' that set out the essential concepts to be covered.
- Key points, definitions and equations are highlighted.
- Excellent artwork and photographs complement the text and put the subject into context.
- Sections conclude with a 'Summary' to review the main ideas.
- A vast number of worked examples and consolidation questions throughout provide the opportunity for regular selfassessment.
- Exam-style questions help test knowledge and understanding and improve exam performance.

International A/AS Level Physics 9780340945643 \$87.50

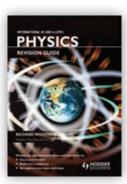
CAMBRIDGE INTERNATIONAL A/AS-LEVEL PHYSICS **REVISION GUIDE**





Richard Woodside

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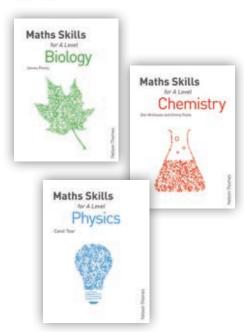
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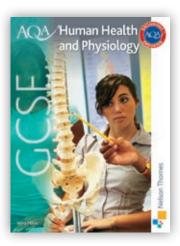
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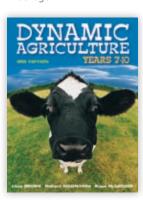
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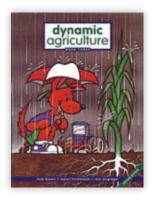
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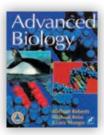
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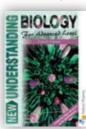
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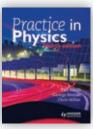
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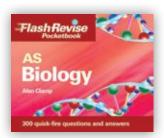
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6 Yrs	Yr 2	Yr 1	Yr 2		(Recep Yrs 1 & 2)	P2
7 Yrs	Yr 3	Yr 2	Yr 3	7-11 Yrs	KS2	P3
8 Yrs	Yr 4	Yr 3	Yr 4		(Yrs 3,4,5 & 6)	P4
9 Yrs	Yr 5	Yr 4	Yr 5			P5
10 Yrs	Yr 6	Yr 5	Yr 6			P6
11 Yrs	Yr 7	Yr 6	Yr 7	11-14 Yrs	KS3	P7
12 Yrs	Yr 8	Yr 7	Yr 8		(Yrs 7,8 & 9)	S1
13 Yrs	Yr 9	Yr 8	Yr 9			S2
14 Yrs	Yr 10	Yr 9	Yr 10	14-16 Yrs	KS4/GCSE	S3
15 Yrs	Yr 11	Yr 10	Yr 11		(Yrs 10 & 11)	S4
16 Yrs	Yr 12	Yr 11	Yr 12	16-17 Yrs	AS	S5 (Intermediate 1,2 or Higher)
17 Yrs	Yr 13	Yr 12	Yr 13	17-18 Yrs	A2	S6 (Higher or Adv Higher)
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NVQ: National Vocational Qualification - skills for occupations						