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IB Chemistry Internal Assessment [IA]

Seven Excellent IA for the International Baccalaureate [IB] Diploma

This book contains seven excellent Internal Assessments (IA) for the IB Chemistry course. Our goal is to help you understand how success is achieved in the IA so that you can go on to obtain a similar result. Alongside these IAs is a clear and comprehensive guide on how to write yours, including everything from how to choose an interesting topic to how to integrate the IA with your studies and the syllabus. The guide also includes links to various online resources which may help you achieve the maximum mark. Sections include: - Structure: how to plan your Chemistry IA the ideal way - Ideas: an exhaustive list of excellent sources and websites - Assessment: maximizing your marks with one eye on the grading criterion - Technology: what tools can be used to improve your IA Our guide makes frequent reference to the grading matrix and the format that your IA should follow, as well as highlighting details which you must bear in mind when carrying out your investigation. EIB Education (Elite IB Tutors) are a globally recognized authority in the International Baccalaureate. Having supported thousands of students across 40 countries in the past 7 years, EIB supports students, families and schools through the entire IB journey.

Internal Assessment for Chemistry for the IB Diploma: Skills for Success

Skills for Success

Hodder Education Aim for the best Internal Assessment grade with this year-round companion, full of advice and guidance from an experienced IB Diploma Chemistry teacher. - Build your skills for the Individual Investigation with prescribed practicals supported by detailed examiner advice, expert tips and common mistakes to avoid. - Improve your confidence by analysing and practicing the practical skills required, with comprehension checks throughout. - Prepare for the Internal Assessment report through exemplars, worked answers and commentary. - Navigate the IB requirements with clear, concise explanations including advice on assessment objectives and rules on academic honesty. - Develop fully rounded and responsible learning with explicit reference to the IB learner profile and ATLs.

IB Chemistry Course Book

For the IB diploma

OUP Oxford The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

Physics Practical Scheme of Work - For Use with the Ib

Diploma Programme

First Assessment 2016

CreateSpace The Physics Practical Scheme of Work for use with the IB Diploma Programme by Michael J. Dickinson, is an invaluable resource for IB Physics teachers, whether new to teaching the course or a seasoned veteran. This second edition has been fully updated to align with the latest requirements of the Internal Assessment (IA) aspect of the IB Physics Guide (first assessment 2016). It is a collection of 60 lab experiments from a range of physics topics, rewritten to comply with the latest guide's Personal Engagement, Exploration, Analysis, Evaluation & Communication criteria. The guide accompanies the textbook, Physics for use with the IB Diploma Programme also by Michael J. Dickinson. Written in plain English with an international audience in mind, it is the ideal teaching and learning resource for both standard and higher levels of the IB Physics course. This Practical Scheme of Work contains: A collection of 60 lab experiment sheets covering a wide range of topics, each one containing a marking grid so that the criteria being assessed is easily identified. Invaluable information which is aimed to help teachers understand the latest requirements of the Internal Assessment (IA) aspect of the course (first assessment 2016). Examples of the 4/PSOW and new 4/CSS coversheets describing exactly what information is required by the IBO when student IA sample work is submitted for moderation. An explanation of the regulations regarding the Personal Engagement, Exploration, Analysis, Evaluation and Communication criteria of the Practical Scheme of Work. A marked example of the new Individual Investigation written in accordance with the IB Internal Assessment regulations, with supporting notes to provide guidance to teachers and students regarding the IB assessment of the students' practical work. Numerous titles for practical experiments that teachers can use as inspiration for their own practical scheme of work, ideas of titles for students' Individual Investigations or topics that students can use when deciding on a title for an Extended Essay in Physics. An explanation and example of the requirements of the Group 4 Project.

Learning and Understanding

Improving Advanced Study of Mathematics and Science in U.S. High Schools

National Academies Press *This book takes a fresh look at programs for advanced studies for high school students in the United States, with a particular focus on the Advanced Placement and the International Baccalaureate programs, and asks how advanced studies can be significantly improved in general. It also examines two of the core issues surrounding these programs: they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education. By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs, this report provides teachers, parents, curriculum developers, administrators, college science and mathematics faculty, and the educational research community with a detailed assessment that can be used to guide change within advanced study programs.*

Chemistry for the IB Diploma Second Edition

Hodder Education *Provide clear guidance to the 2014 changes and ensure in-depth study with accessible content, directly mapped to the new syllabus and approach to learning This second edition of the highly-regarded first edition contains all SL and HL content, which is clearly identified throughout. Options are available free online, along with appendices and data and statistics. - Improve exam performance, with exam-style questions, including from past papers - Integrate Theory of Knowledge into your lessons and provide opportunities for cross-curriculum study - Stretch more able students with extension activities - The shift to concept-based approach to learning , Nature of Science, is covered by providing a framework for the course with points for discussion - Key skills and experiments included - Full digital package - offered in a variety of formats so that you can deliver the course just how you like!*

Survive the IB!

Lulu.com

IB Biology Internal Assessment [IA]

Seven Excellent IA for the International Baccalaureate [IB] Diploma

This book contains seven excellent Internal Assessments (IA) for the IB Biology course. Our goal is to help you understand how success is achieved in the IA so that you can go on to obtain a similar result. Alongside these IAs is a clear and comprehensive guide on how to write yours, including everything from how to choose an interesting topic to how to integrate the IA with your studies and the syllabus. The guide also includes links to various online resources which may help you achieve the maximum mark. Sections include: - Structure: how to plan your Biology IA the ideal way - Ideas: an exhaustive list of excellent sources and websites - Assessment: maximizing your marks with one eye on the grading criterion - Technology: what tools can be used to improve your IA Our guide makes frequent reference to the grading matrix and the format that your IA should follow, as well as highlighting details which you must bear in mind when carrying out your investigation. EIB Education (Elite IB Tutors) are a globally recognized authority in the International Baccalaureate. Having supported thousands of students across 40 countries in the past 7 years, EIB supports students, families and schools through the entire IB journey.

IJER Vol 25-N3

Rowman & Littlefield The mission of the International Journal of Educational Reform (IJER) is to keep readers up-to-date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities. As the only peer-reviewed scholarly publication that combines authors' voices without regard for the political affiliations perspectives, or research methodologies, IJER provides readers with a balanced view of all sides of the political and educational mainstream. To this end, IJER includes, but is not limited to, inquiry based and opinion pieces on developments in such areas as policy, administration, curriculum, instruction, law, and research. IJER should thus be of interest to professional educators with decision-making roles and policymakers at all levels turn since it provides a broad-based conversation between and among policymakers, practitioners, and academicians about reform goals, objectives, and methods for success throughout the world. Readers can call on IJER to learn from an

international group of reform implementers by discovering what they can do that has actually worked. IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar mistakes. Finally, it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U.S. and the world.

Chemistry for the IB Diploma Study and Revision Guide

Hodder Education Stretch your students to achieve their best grade with these year round course companions; providing clear and concise explanations of all syllabus requirements and topics, and practice questions to support and strengthen learning. - Consolidate revision and support learning with a range of exam practice questions and concise and accessible revision notes - Practise exam technique with tips and trusted guidance from examiners on how to tackle questions - Focus revision with key terms and definitions listed for each topic/sub topic

Chemistry for the IB Diploma Coursebook with Free Online Material

Cambridge University Press Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. The Second edition of this well-received Coursebook is fully updated for the IB Chemistry syllabus for first examination in 2016, comprehensively covering all requirements. Get the best coverage of the syllabus with clear assessment statements, and links to Theory of Knowledge, International-mindedness and Nature of Science themes. Exam preparation is supported with plenty of sample exam questions, online test questions and exam tips. Chapters covering the Options and Nature of Science, assessment guidance and answers to questions are included in the additional online material available with the book.

Essential Questions

Opening Doors to Student Understanding

ASCD What are "essential questions," and how do they differ from other kinds of questions? What's so great about them? Why should you design and use essential questions in your classroom? Essential questions (EQs) help target standards as you organize curriculum content into coherent units that yield focused and thoughtful learning. In the classroom, EQs are used to stimulate students' discussions and promote a deeper understanding of the content. Whether you are an Understanding by Design (UbD) devotee or are searching for ways to address standards—local or Common Core State Standards—in an engaging way, Jay McTighe and Grant Wiggins provide practical guidance on how to design, initiate, and embed inquiry-based teaching and learning in your classroom. Offering dozens of examples, the authors explore the usefulness of EQs in all K-12 content areas, including skill-based areas such as math, PE, language instruction, and arts education. As an important element of their backward design approach to designing curriculum, instruction, and assessment, the authors *Give a comprehensive explanation of why EQs are so important; *Explore seven defining characteristics of EQs; *Distinguish between topical and overarching questions and their uses; *Outline the rationale for using EQs as the focal point in creating units of study; and *Show how to create effective EQs, working from sources including standards, desired understandings, and student misconceptions. Using essential questions can be challenging—for both teachers and students—and this book provides guidance through practical and proven processes, as well as suggested "response strategies" to encourage student engagement. Finally, you will learn how to create a culture of inquiry so that all members of the educational community—students, teachers, and administrators—benefit from the increased rigor and deepened understanding that emerge when essential questions become a guiding force for learners of all ages.

IB Physics Internal Assessments

7 Excellent IAs for the International Baccalaureate [IB] Diploma

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write yours, including everything from how to choose an interesting topic to how to integrate the IA with your studies and the syllabus. The guide also includes links to various online resources which may help you achieve highly. Our guide makes frequent reference to the grading matrix and the format that your IA should follow, as well as highlighting details which you must bear in mind when carrying out your investigation. EIB Education (Elite IB Tutors) are a globally recognized authority in the International Baccalaureate. Having supported thousands of students across 40 countries in the past 7 years, EIB supports students, families and schools through the entire IB journey.

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Chemistry for the IB Diploma

Standard and Higher Level

Oxford University Press, USA This concise guide provides the content needed for the Chemistry IB diploma at both Standard and Higher Level. It follows the structure of the IB Programme exactly and includes all the options. Each topic is presented on its own page for clarity, Higher Level material is clearly indicated, and there are plenty of practice questions. The text is written with an awareness that English might not be the reader's first language

Chemistry for the IB MYP 4 & 5

By Concept

Hodder Education *The only series for MYP 4 and 5 developed exclusively with the IB Drive meaningful inquiry through a unique concept-driven narrative. - Supports every aspect of assessment with opportunities that use the criteria - Gives you easy ways to differentiate and extend learning - Provides a meaningful approach by integrating the inquiry statement in a global context - Develops critical-thinking skills with activities and summative sections rooted in the ATL framework This title is also available in two digital formats via Dynamic Learning. Find out more by clicking on the links at the top of the page.*

45 Tips, Tricks, and Secrets for the Successful International Baccalaureate [Ib] Student

This book is a complete to-the-point manual to maximizing your marks in the International Baccalaureate Diploma Program.

Chemistry

For the IB Diploma

Oxford University Press, USA *This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus, ensuring students develop a clear understanding of all the crucial topics at SL and HL. Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding, exam preparation material is integrated to build student confidence and assessment potential. Directly linked to the new Oxford Chemistry Course Book to extend and sharpen comprehension, this book supports maximum achievement in the course and assessment. About the series: Reinforce student understanding of all the crucial subject material. Fully comprehensive and matched to the most recent syllabuses, these resources provide focused review of all important concepts, tangibly strengthening assessment potential.*

Higher Level Chemistry

Developed Specifically for the IB Diploma

Heinemann Educational Publishers Provides complete coverage of the syllabus requirements. This book offers information on Chemistry for IB Diploma course.

The Chemical Kinetics of Excited States

Environmental Systems and Societies for the IB Diploma

Cambridge University Press "Cambridge resources for the IB diploma"--p. [4] cover.

The Facts on File Dictionary of Inorganic Chemistry

Provides explanations for more than two thousand terms and phrases in the field of inorganic chemistry.

Chemistry

Course Companion

Oxford University Press, USA Developed in collaboration with the International Baccalaureate Organization, Oxford's Course Companions provide extra support for students taking IB Diploma Programme courses. They present a whole-course approach with a wide range of resources, and encourage a deep understanding of each subject by making connections to wider issues and providing opportunities for critical thinking. It has been written by a principal examiner for the IB Diploma Program Chemistry and has been extensively reviewed by teachers, consultants and the IBO. With material integrated to include international and historical

perspectives, students are encouraged to think critically and make connections to other subjects and to world issues. Includes material for cross curricular connections to help students think critically about science and consider its evolution, full coverage of the core and AHL as well as selective coverage of the Options, provides a wealth of illustrations to help explain difficult concepts, material for CAS and the extended essay as well as examination questions included for critical thinking, examination practice and reinforcement of concepts learned.

The Theory of Poker

Two Plus Two Publishing LLC "Now, for the millions of poker players who know the basics, but do not fully understand the logic and principles of skillful play, here is a serious, comprehensive guide that shows how to think like a professional poker player"--Page 4 of cover.

Handbook of Antioxidant Methodology

Royal Society of Chemistry The field of antioxidant research has grown rapidly over the last 30 years and shows no sign of slowing down. In order to understand how antioxidants work, it is essential to understand how their activity is measured. However, antioxidant activity measurements are controversial and their value has been challenged. This book addresses a number of the controversies on antioxidant testing methods. Specifically, the book highlights the importance of context, helping the reader to decide what methods are most appropriate for different situations, how the results can be interpreted and what information may be inferred from the data. There are a multiplicity of methods for measuring activity, with no standardized method approved for in vitro or in vivo testing. In order to select an appropriate method, a thorough knowledge of the processes associated with reduction-oxidation is essential, leading to an improved understanding and use of activity measurements and the associated data. The book presents background information, in a unique style, which is designed to assist readers to grasp the fundamentals of redox processes, as well as thermodynamics and kinetics, which are essential to later chapters. Recovery and extraction of antioxidants from diverse matrices are presented in a clear and logical fashion along with methods used to determine antioxidant activity from a mechanistic perspective. Other chapters present current methodologies used for activity testing in different sample types ranging from foods and plants, to body fluids and even to packaging, but always with a strong emphasis on the nature of the sample and the underlying chemistry of the method. A number of emerging techniques for assessing antioxidant behaviour, namely, electrochemical methods, chip technology exploiting microfluidic devices, metabolomics plus studies of gene and protein expression, are examined. Ultimately, these

techniques will be involved in generation of "big data" for which an understanding of chemometrics will be essential in drawing valid conclusions. The book is written to appeal to a wide audience, but will be particularly helpful for any researchers who are attempting to make sense of the vast literature and often conflicting messages on antioxidant activity.

Standard Level Chemistry

Heinemann Educational Publishers Provides complete coverage of the syllabus requirements. This book offers information on Chemistry for IB Diploma course.

IB Chemistry Internal Assessment Handbook

Roald Hoffmann on the Philosophy, Art, and Science of Chemistry

Oxford University Press Nobel laureate Roald Hoffmann's contributions to chemistry are well known. Less well known, however, is that over a career that spans nearly fifty years, Hoffmann has thought and written extensively about a wide variety of other topics, such as chemistry's relationship to philosophy, literature, and the arts, including the nature of chemical reasoning, the role of symbolism and writing in science, and the relationship between art and craft and science. In *Roald Hoffmann on the Philosophy, Art, and Science of Chemistry*, Jeffrey Kovac and Michael Weisberg bring together twenty-eight of Hoffmann's most important essays. Gathered here are Hoffmann's most philosophically significant and interesting essays and lectures, many of which are not widely accessible. In essays such as "Why Buy That Theory," "Nearly Circular Reasoning," "How Should Chemists Think," "The Metaphor, Unchained," "Art in Science," and "Molecular Beauty," we find the mature reflections of one of America's leading scientists. Organized under the general headings of Chemical Reasoning and Explanation, Writing and Communicating, Art and Science, Education, and Ethics, these stimulating essays provide invaluable insight into the teaching and practice of science.

Viscosity of Liquids

Theory, Estimation, Experiment, and Data

Springer Science & Business Media This book is unique in that it brings together published viscosity data, experimental methods, theoretical, correlation and predictive procedures in a single volume. The readers will get a better understanding of why various methods are used for measuring viscosity of different types of liquids and why an experimental method is dependent on fluid characteristics, such as Newtonian or non-Newtonian fluids.

Pedagogy in a New Tonality

Springer Science & Business Media This is a book for teachers, by teachers, from elementary school to university level classrooms. It is about the use of creative instructional strategies in K-12 classroom settings, and the transformations the teachers made in their journeys from being traditional practitioners to “becoming pedagogical” in their approaches to teaching and learning across the curriculum. Over twenty teachers conducted research in their classrooms on the implementation of creative strategies, tactics, graphics organizers, and visual journals in teaching and learning. They have written their inquiries in a narrative style, informed by various forms of arts based educational research. Their research is approachable and usable by other teachers who are interested in becoming reflective-reflexive practitioners. Many of the strategies, tactics, and graphics organizers are described by Barrie Bennett in his widely used textbook, *Beyond Monet: The Artful Science of Instructional Intelligence*. However, through their journeys of becoming teacher-learner-researchers, many discovered numerous, creative variations of Bennett’s work as it was implemented in their classrooms. While there are many professional books that provide ideas on collaborative learning and creative teaching approaches, there is very little published research on the efficacy of these concepts in the K-12 classroom. These inquiries provide practical insights into how inspired teachers can conduct research on improving their own practice as well as on greatly improving their students’ learning. Thus, this book has widespread interest for teachers and administrators who seek to implement systemic changes in the ways that teachers teach, and children learn, in the 21st century.

Knowing What Students Know

The Science and Design of Educational Assessment

National Academies Press Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments—assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning. Knowing What Students Know essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment—what students know and how well they know it—as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored. With the promise of a productive research-based approach to assessment of student learning, Knowing What Students Know will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.

IB Biology

Genetics Made Easy

Ib study guide: physics (2014). Per le Scuole superiori

Oxford University Press, USA This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus, ensuring students develop a clear understanding of all the crucial topics at SL and HL. Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding, exam preparation material is integrated to build student confidence and assessment potential. Directly linked to the Oxford Physics Course Book to extend and sharpen comprehension, this book supports maximum achievement in the course and assessment. About the series: Reinforce student understanding of all the crucial subject material. Fully comprehensive and matched to the most recent syllabuses, these resources provide focused review of all important concepts, tangibly strengthening assessment potential.

Metamorphic Textures

Elsevier Metamorphic Textures provides definitions, descriptions and illustrations of metamorphic textures, as well as the fundamental processes involved in textural development. This book is composed of 11 chapters and begins with a presentation of the metamorphic processes and the production of metamorphic minerals. The subsequent chapters describe the structural classification of grain boundaries, the metamorphic reactions, mineral transformations, and the crystallization and recrystallization of metamorphic rocks. These topics are followed by the texture examination of thermal metamorphic rocks and minerals and the preferred orientations of these rocks, particularly the dimensional and lattice preferred orientation. Other chapters survey the textures of rocks under dynamic and shock metamorphism. The final chapters describe the textures of regional and polymetamorphism. This book will be of great use to petrologists, physicists, and graduate and undergraduate petrology students.

IB Biology Internal Assessment

Chemistry for the IB Diploma Workbook with CD-ROM

Cambridge University Press Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. This workbook is specifically for the IB Chemistry syllabus, for examination from 2016. The Chemistry for the IB Diploma Workbook contains straightforward chapters that build learning in a gradual way, first outlining key terms and then providing students with plenty of practice questions to apply their knowledge. Each chapter concludes with exam-style questions. This structured approach reinforces learning and actively builds students' confidence using key scientific skills - handling data, evaluating information and problem solving. This helps empower students to become confident and independent learners. Answers to all of the questions are on the CD-ROM.

Advanced Organic Chemistry

Part A: Structure and Mechanisms

Springer Science & Business Media The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

Pearson Baccalaureate Chemistry Higher Level 2nd Edition Print and Online Edition for the IB Diploma

Prentice Hall Completely revised new editions of the market-leading Chemistry textbooks for HL and SL, written for the new 2014 Science IB Diploma curriculum. Now with an accompanying four-year student access to an enhanced eText, containing simulations, animations, quizzes, worked solutions, videos and much more. The enhanced eText is also available to buy separately and works on

desktops and tablets - [click here to watch a video to learn more](#). Follows the organizational structure of the new Chemistry guide, with a focus on the Essential Ideas, Understanding, Applications & Skills for complete syllabus-matching. Written by the highly experienced IB author team of Catrin Brown and Mike Ford, with additional e-features by Richard Thornley and David Moore, you can be confident that you and your students have all the resources you will need for the new Chemistry curriculum. Features: Nature of Science and ToK boxes throughout the text ensure an embedding of these core considerations and promote concept-based learning. Applications of the subject through everyday examples are described in utilization boxes, as well as brief descriptions of related industries, to help highlight the relevance and context of what is being learned. Differentiation is offered in the Challenge Yourself exercises and activities, along with guidance and support for laboratory work on the page and online. Exam-style assessment opportunities are provided from real past papers, along with hints for success in the exams, and guidance on how to avoid common pitfalls. Clear links are made to the Learner profile and the IB core values. Table of Contents: Stoichiometric Relationships Atomic Structure Periodicity Chemical Bonding and Structure Energetics/Thermochemistry Chemical Kinetics Equilibrium Acids and Bases Redox Processes Organic Chemistry Measurement and Data Processing Option A: Materials Option B: Biochemistry Option C: Energy Option D: Medicinal Chemistry

The International Baccalaureate

An Experiment in International Education

London : G. G. Harrap

Barron's IB Biology

Barrons Educational Series The International Baccalaureate® (IB) was founded in Geneva, Switzerland in 1968 as a non-profit educational foundation that endeavored to develop inquiring, knowledgeable and caring young people who would go on to create a better and more peaceful world through intercultural understanding and respect. What began as a single program for internationally mobile students preparing for college, has grown into a series of programs for students up to age 19. Barron's is pleased to offer a brand new review guide for the IB Biology exam. The content of the exam is compiled from the newly revised IB Biology course syllabus. This review book focuses specifically on the syllabus material to ensure that students are fully prepared an