

GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

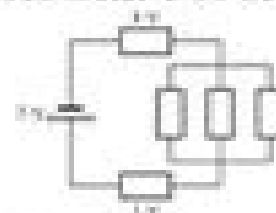
SECTION A

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the **LETTER (A-D)** next to the **QUESTION NUMBER** in your answer book.

- 1.1 An example of a vector quantity:
- velocity
 - displacement
 - speed
 - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
 - applied force
 - gravity
 - normal force
- 1.3 Two forces F_1 and F_2 have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of F_1 and F_2 will be:
- 70N and 30N
 - 100N and 0N
 - 60N and 40N
 - 80N and 20N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
 - 7V
 - 2V
 - 3V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20Ω:
- 10Ω
 - 4/3Ω
 - 3Ω
 - 6Ω
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
 - frictional force is more than 200N
 - frictional force is less than 200N
 - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **B**?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

Possible Papers November 2014 Physics Grade 1

**Veronica Bonsignori, Belinda Crawford
Camiciottoli, Denise Filmer**

Possible Papers November 2014 Physics Grade 1:

From Molecules to Living Organisms: an Interplay Between Biology and Physics Eva Pebay-Peyroula, Hugues Nury, Christine Ziegler, François Parcy, Rob W. H. Ruigrok, Leticia F. Cugliandolo, 2016 The aim of this title is to familiarise the new generation of PhD students and postdoctoral fellows with the principles and methods of modern lattice field theory which aims to resolve fundamental non perturbative questions about QCD without uncontrolled approximations **2024-25**

TGT/PGT/DSSSB Science Physics, Chemistry & Biology Solved Papers YCT Expert Team , 2024 25 TGT PGT DSSSB Science Physics Chemistry Biology Solved Papers 576 1095 E This book covers TGT PGT DSSSB NVS KVS chapter wise solved papers 78 sets and 8210 objective questions **Recent Advances in Heat Pipes** Wael I.A. Aly, 2019-09-18 Heat pipes are considered as an effective thermal solution particularly in high heat flux applications and in situations where there is a combination of nonuniform heat loading limited airflow over the heat generating components and space or weight constraints This book is intended to explore some of the recent advances in heat pipes and their applications in thermal systems The first chapter is an introductory chapter about the recent advances in heat pipes in general The second chapter is about thermosyphon heat pipe technology working principles advantages and disadvantages application ranges and using computational fluid dynamics in modeling thermosyphons The third chapter is about recent research into loop heat pipes LHPs The last chapter presents a novel liquid vapor separator incorporated gravitational LHP *Advances in Energy Science and Equipment Engineering II Volume 2* Shiquan Zhou, Aragona Patty, Shiming Chen, 2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 was held on November 12 14 2016 in Guangzhou China ICEESE 2016 brought together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas This second volume of the two volume set of proceedings covers the field of Structural and Materials Sciences and Computer Simulation Computer and Electrical Engineering **Automation in Tree Fruit Production** Qin Zhang, 2017-11-30 Automation in agriculture is made possible by the integration of advanced agricultural technology and precision agriculture management This book uniquely will focus on applications of automation to the important industry of tree fruit production Written by experts in agricultural automation technology from around the world chapters in this book cover topics such as automated tree fruit production systems plant stress sensing and high throughput phenotyping in precision horticulture the economics of automation in tree fruit production light interception sensing systems for canopy management precision irrigation and water management precision technologies for pest and

disease management opportunities for the application of robotics in tree fruit production and the mechanical harvesting and handling of fruit crops The book is a representative concise overview of the variety of technologies currently being applied to tree fruit crops around the world and the challenges faced by engineers and farmers that these technologies raise It is aimed at researchers and graduate students of agriculture systems agricultural and biological engineering crop and soil sciences horticulture precision agriculture and other relevant disciplines It will also be of use to agriculture consultants engineers and other professionals such as agricultural equipment manufacturers and management professionals who use precision agriculture technologies

Between Mission and Market Daniel Rosenberg, 2017-04-26 Between Mission and Market The Freshman Year in a Corporate Age focuses on the arrival of college freshmen at the moment of the transformation it uses Adelphi University in suburban New York City to study an attempt to resolve first year difficulties As higher education institutions turn into enterprises run on business models the pressures of getting into college including the taking of the SAT and ACT have induced stress addictions eating disorders drug use and mental problems However special programs to ease the first year transition through counseling and support are run as cheaply as possible This book confronts some of the cardinal controversies in higher education particularly those affecting first year students high stakes testing in general particularly the SAT the intensification of student debt and the financial sentence imposed upon all who incur it and the dramatic pressures placed upon freshmen as they transition to college

ICT Education Bobby Tait, Jan Kroeze, Stefan Gruner, 2019-11-21 This book constitutes the refereed proceedings of the 48th Annual Conference of the Southern African Computer Lecturers Association on ICT Education SACLA 2019 held in Northern Drakensberg South Africa in July 2019 The 16 revised full papers presented were carefully reviewed and selected from 57 submissions The papers are organized in following topical sections computer programming education system security education software engineering education education of post graduate research students our students our profession

Learning from Animations in Science Education Len Unsworth, 2020-11-10 This book examines educational semiotics and the representation of knowledge in school science It discusses the strategic integration of animation in science education It explores how learning through the creation of science animations takes place as well as how animation can be used in assessing student s science learning Science education animations are ubiquitous in a variety of different online sites including perhaps the most popularly accessed YouTube site and are also routinely included as digital augmentations to science textbooks They are popular with students and teachers and are a prominent feature of contemporary science teaching The proliferation of various kinds of science animations and the ready accessibility of sophisticated resources for creating them have emphasized the importance of research into various areas the nature of the semiotic construction of knowledge in the animation design the development of critical interpretation of available animations the strategic selection and use of animations to optimize student learning student creation of science animations and using animation in assessing student science learning This book brings together new developments in these

research agendas to further multidisciplinary perspectives on research to enhance the design and pedagogic use of animation in school science education Chapter 1 is available open access under a Creative Commons Attribution 4.0 International License via link springer.com

Peter Lax, Mathematician Reuben Hersch, 2014-12-29 This book is a biography of one of the most famous and influential living mathematicians Peter Lax He is virtually unique as a preeminent leader in both pure and applied mathematics fields which are often seen as competing and incompatible Although he has been an academic for all of his adult life his biography is not without drama and tragedy Lax and his family barely escaped to the U S from Budapest before the Holocaust descended He was one of the youngest scientists to work on the Manhattan Project He played a leading role in coping with the infamous kidnapping of the NYU mathematics department's computer in 1970 The list of topics in which Lax made fundamental and long lasting contributions is remarkable scattering theory solitons shock waves and even classical analysis to name a few His work has been honored many times including the Abel Prize in 2005 The book concludes with an account of his most important mathematical contributions made accessible without heavy prerequisites Reuben Hersch has written extensively on mathematics His book with Philip Davis *The Mathematical Experience* won the National Book Award in science Hersch is emeritus professor of mathematics at the University of New Mexico

Teaching and Learning STEM Richard M. Felder, Rebecca Brent, 2016-02-22 Rethink traditional teaching methods to improve student learning and retention in STEM Educational research has repeatedly shown that compared to traditional teacher centered instruction certain learner centered methods lead to improved learning outcomes greater development of critical high level skills and increased retention in science technology engineering and mathematics STEM disciplines Teaching and Learning STEM presents a trove of practical research based strategies for designing and teaching STEM courses at the university community college and high school levels The book draws on the authors extensive backgrounds and decades of experience in STEM education and faculty development Its engaging and well illustrated descriptions will equip you to implement the strategies in your courses and to deal effectively with problems including student resistance that might occur in the implementation The book will help you Plan and conduct class sessions in which students are actively engaged no matter how large the class is Make good use of technology in face to face online and hybrid courses and flipped classrooms Assess how well students are acquiring the knowledge skills and conceptual understanding the course is designed to teach Help students develop expert problem solving skills and skills in communication creative thinking critical thinking high performance teamwork and self directed learning Meet the learning needs of STEM students with a broad diversity of attributes and backgrounds The strategies presented in Teaching and Learning STEM don't require revolutionary time intensive changes in your teaching but rather a gradual integration of traditional and new methods The result will be continual improvement in your teaching and your students learning More information about Teaching and Learning STEM can be found at <http://educationdesignsinc.com> book including its preface foreword table of contents first chapter a reading

guide and reviews in 10 prominent STEM education journals Recent advances in Applied Microbiology Pratyoo Shukla, 2017-11-07 This book is a one stop reference resource presenting recent research in various emerging areas of microbiology including microbial biotechnology microbes in health microbial interactions agricultural microbiology and computational approaches Recent discoveries in microbiology have created a great deal of interest among researchers around the globe and as such the book discusses a number of important research topics such as microbial enzymes and nanoparticles bacterial polyhydroxyalkanoates biosurfactant aided bioprocessing autophagy and microbial pathogenesis multidrug resistant bacteria probiotics rhizosphere metal tolerant bacteria plant beneficial environmental bacteria and therapeutic applications of fungal chondroitinase It serves as a valuable resource for masters doctoral and postdoctoral researchers in life sciences as well as scientists involved in various interdisciplinary research areas It also provides useful material for higher level graduate courses in microbiology and biotechnology **Empowering Science and Mathematics for Global Competitiveness** Yuli Rahmawati, Peter Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education **American Universities and Colleges**, 2014-10-08 No detailed description available for American Universities and Colleges

Commonsense Methods for Children with Special Needs and Disabilities Peter Westwood, 2020-11-25 This fully revised and updated eighth edition of Peter Westwood's book offers practical advice and strategies for meeting the challenge of inclusive teaching Based on the latest international research from the field it offers practical advice on both new and well tried evidence based approaches and strategies for teaching students with a wide range of difficulties As well as covering special educational needs learning difficulties and disabilities in detail chapters also explore topics such as self management and autonomy managing behaviour and social skills The book offers sound pedagogical practices and strategies for adapting curriculum content designing teaching materials differentiating instruction for mixed ability classes and implementing inclusive assessment of learning Key features of this new edition include Additional information on linking all aspects of teaching to a Response to Intervention Model A focus on the increasing importance of digital technology in supporting the learning of students with special educational needs and disabilities Up to date resource lists for each chapter for those who

wish to pursue a particular topic in greater depth Reflecting cutting edge international research and teaching practices this is an invaluable resource for practising and trainee teachers teaching assistants and other educational professionals looking to support students with special educational needs and disabilities

Ssc Stenographers (Grade C & D) Computer Based Examination (Cbe)-2022 10 Practice Sets & Solved Papers 2011-2021 Team Prabhat,2022-09-24 Prepare for success in the SSC Stenographers Grade C D Computer Based Examination CBE with SSC Stenographers Grade C D Computer Based Examination CBE 2022 10 Practice Sets Solved Papers 2011 2021 by Team Prabhat your comprehensive guide to mastering the exam and achieving your career goals Join Team Prabhat as they provide you with 10 meticulously crafted practice sets that simulate the format and difficulty level of the SSC Stenographers Grade C D CBE In addition this book includes solved papers from 2011 to 2021 offering valuable insights into the exam pattern question types and strategies for success As you work through each practice set you ll have the opportunity to assess your strengths and identify areas for improvement in key areas such as general intelligence and reasoning general awareness and English language and comprehension With detailed solutions provided for each question you ll be able to track your progress and gain confidence as you prepare for the exam Themes of thoroughness accuracy and exam readiness permeate the content of SSC Stenographers Grade C D Computer Based Examination CBE 2022 10 Practice Sets Solved Papers 2011 2021 ensuring that you re fully equipped to tackle any challenge that comes your way on exam day Whether you re a novice test taker or an experienced candidate looking to brush up on your skills this book has you covered The overall tone of the book is one of confidence and competence with Team Prabhat s expert guidance and comprehensive coverage of the exam syllabus instilling you with the knowledge and skills you need to succeed Their clear explanations and strategic approach to exam preparation make this book an invaluable resource for anyone striving to achieve their goals Since its publication SSC Stenographers Grade C D Computer Based Examination CBE 2022 10 Practice Sets Solved Papers 2011 2021 has become a trusted companion for aspiring candidates preparing for the SSC Stenographers exam Its practical approach thorough coverage and emphasis on exam strategy have helped countless students achieve their desired scores and secure their dream jobs Whether you re a student a working professional or someone looking to advance your career SSC Stenographers Grade C D Computer Based Examination CBE 2022 10 Practice Sets Solved Papers 2011 2021 offers a comprehensive and effective study solution that will help you maximize your potential and achieve success on exam day Don t leave your preparation to chance Grab your copy now and take the first step towards a brighter future

Biometrics and Cryptography Sudhakar Radhakrishnan,Carlos M. Travieso-Gonzalez,2024-06-19 Cryptography has crept into everything from Web browsers and e mail programs to cell phones bank cards and cars Shortly we will see many new exciting applications for cryptography such as radio frequency identification RFID tags for anti counterfeiting As a consequence of the pervasiveness of crypto algorithms an increasing number of people must understand how they work and how they can be applied in practice This book addresses this issue by

providing a comprehensive introduction to modern applied cryptography that is equally suited for students and practitioners in industry Much of the focus is on practical relevance by introducing most crypto algorithms that are used in modern real world applications In addition to crypto algorithms attention is also given to important cryptographic protocols modes of operation security services and key establishment techniques Timely topics include lightweight ciphers which are optimized for constrained applications In today s fast paced world security and convenience are paramount Biometrics the science of identifying individuals based on their unique physical or behavioral traits offers a solution that is both secure and convenient From fingerprint scanners on smartphones to facial recognition software at airports biometrics is rapidly becoming an integral part of our daily lives But what exactly is biometrics and how does it work This book delves into the fascinating world of biometrics exploring its history applications and the latest technological advancements You ll discover how biometrics can be used to verify identity control access and even detect fraud Whether you re a security professional a technology enthusiast or simply curious about the future of personal identification this book is for you [How AI Will Shape Our Future](#) Pedro URIA-RECIO,2024-11-20 The global AI bestseller inspiring US and UK readers Written by the Chief Data AI Officer in one of the largest banks in Asia an ex Mckinsey consultant who served at Forbes Technology Council A unique perspective that combines technology economics geopolitics and history PASCAL BORNET tech influencer 2 million followers This book will help you get ready for the changes coming in the years ahead Read it now Packed with expert insights the book addresses critical questions How will AI alter employment education and global geopolitics What ethical dilemmas will arise as humans interlace with AI through cyborgs and synthetic biology Can we prepare for superintelligence and its utopian or dystopian outcomes Written for professionals students technologists and all curious minds this book demystifies complex AI concepts while offering actionable strategies for navigating rapid AI advancements Drawing on history economics and philosophy it paints a vivid picture of AI s potential to redefine humanity Whether you re seeking to understand AI s present or prepare for its future this indispensable guide equips you to stay ahead in an ever changing world In this book one of the foremost global experts on artificial intelligence provides profound insights into pressing questions He explores controversial topics such as superintelligence synthetic biology AI s role in global competition particularly between the U S and China its impact on future warfare and its increasing influence on our personal and family life Will we see true human cyborg coexistence potentially altering our species evolution Will artificial intelligence bring about humanity s extinction or propel us to unprecedented heights Get a fresh perspective and explore approaches that will empower and inspire you to innovate and thrive in the face of AI s inevitable reality Key Themes Humanity interlaces with AI AI is our new mind Robotics our new body How are we becoming a new species at the intersection of carbon and silicon AI gets exponential Artificial General Intelligence Humanoids and cyborgs Synthetic biology Quantum computing Mind emulation How will they unfold AI authoritarianism AI will render truth obsolete freedom redefined and job scarcity ubiquitous Can we still shape AI for the

benefit of all Geopolitics supercharged Super Intelligence will be worshiped China and America will clash over their views on AI Politics will be centered on species identities Humanity's greatest epic From Mythology to Kubrick From Aristotle to Sam Altman From Leonardo to Boston Dynamics From today to Superintelligence Stay ahead with AI Critical thinking Adaptability Entrepreneurship Praise for this Book A factual and comprehensive exploration of artificial intelligence meticulously researched with detailed references on each topic providing readers with a deep understanding of AI AI Magnum Opus What an in depth and thorough volume on AI Vast in its breadth and intelligent insights Thought provoking and grounded in years of global experience with AI technology Highly recommended Masterfully dissects the complex concepts of AI into easily digestible parts making them accessible to readers of all levels

Creativity and Technology in Mathematics Education

Viktor Freiman, Janet Lynne Tassell, 2018-09-03 This volume provides new insights on creativity while focusing on innovative methodological approaches in research and practice of integrating technological tools and environments in mathematics teaching and learning This work is being built on the discussions at the mini symposium on Creativity and Technology at the International Conference on Mathematical Creativity and Giftedness ICMCG in Denver USA 2014 and other contributions to the topic The book emphasizes a diversity of views a variety of contexts angles and cultures of thought as well as mathematical and educational practices The authors of each chapter explore the potential of technology to foster creative and divergent mathematical thinking problem solving and problem posing creative use of dynamic multimodal and interactive software by teachers and learners as well as other digital media and tools while widening and enriching transdisciplinary and interdisciplinary connections in mathematics classroom Along with ground breaking innovative approaches the book aims to provide researchers and practitioners with new paths for diversification of opportunities for all students to become more creative and innovative mathematics learners A framework for dynamic learning conditions of leveraging mathematical creativity with technology is an outcome of the book as well

Analyzing Multimodality in Specialized Discourse Settings

Veronica Bonsignori, Belinda Crawford Camiciottoli, Denise Filmer, 2022-03-01 Contemporary society has witnessed radical changes in the field of communications in terms of how messages and meanings are disseminated Digitalization and the Internet have signalled an exponential rise in the circulation of multimodal texts in which different semiotic resources are orchestrated together to construct meaning in all areas of social life across languages and cultures and in diverse specialized discourse domains This has foregrounded the need to examine the semiotic functions affordances and issues at stake in a range of multimodal discourse forms while simultaneously highlighting the importance of critical multimodal literacy in audiences and learners This volume develops and extends pioneering research on the intersection between multimodality and specialized discourse Eight newly commissioned studies offer innovative perspectives on multimodal research methodologies and applications in a variety of ESP English for Specific Purposes contexts for practitioners and scholars alike The volume offers a glimpse at future directions in this dynamic and ever evolving area of investigation focusing on the

synergy between verbal and non verbal modes of communication in the digital age Each chapter explores an original area of application academic economic scientific marketing legal medical political and tourism The contributors approach multimodality from a range of theoretical and methodological viewpoints including synchronic and diachronic corpus based and corpus aided studies critical discourse analysis and systemic functional linguistics Analytical tools such as multimodal critical discourse analysis multimodal transcription and multimodal annotation software capable of representing the interplay of different semiotic modes speech intonation direction of gaze facial expressions gesturing and spatial positioning of interlocutors are employed The diversity of research strands contained in the volume illustrates just some of the vast areas of multimodal knowledge dissemination that are still unmapped As a cornerstone of communication multimodality needs exploring in all its facets These contributions aim to further that cause

Reading Comprehension and Skills, Grade 5

Carson-Dellosa Publishing, 2014-03-15 Reading Comprehension and Skills for fifth grade is designed to help students develop a strong foundation of reading basics so that they will become competent readers who can advance to more challenging texts It includes engaging passages and stories about a variety of subjects to appeal to all readers The book also encourages vocabulary development and reinforces reading comprehension through leveled activity pages that target each student's individual needs for support Kelley Wingate's Reading Comprehension and Skills series is the perfect choice for both teachers and parents This valuable reading and comprehension skills practice book provides nearly 100 reproducible pages of exciting activities 96 durable flash cards and a motivating award certificate The differentiated activity pages give students the practice they need at a level that is perfect to help them master basic reading comprehension skills necessary to succeed and are great for use at both school and home

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Table of Contents Possible Papers November 2014 Physics Grade 1

1. Understanding the eBook Possible Papers November 2014 Physics Grade 1
 - The Rise of Digital Reading Possible Papers November 2014 Physics Grade 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Possible Papers November 2014 Physics Grade 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Possible Papers November 2014 Physics Grade 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Possible Papers November 2014 Physics Grade 1
 - Personalized Recommendations
 - Possible Papers November 2014 Physics Grade 1 User Reviews and Ratings
 - Possible Papers November 2014 Physics Grade 1 and Bestseller Lists
5. Accessing Possible Papers November 2014 Physics Grade 1 Free and Paid eBooks
 - Possible Papers November 2014 Physics Grade 1 Public Domain eBooks
 - Possible Papers November 2014 Physics Grade 1 eBook Subscription Services
 - Possible Papers November 2014 Physics Grade 1 Budget-Friendly Options

6. Navigating Possible Papers November 2014 Physics Grade 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Possible Papers November 2014 Physics Grade 1 Compatibility with Devices
 - Possible Papers November 2014 Physics Grade 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Possible Papers November 2014 Physics Grade 1
 - Highlighting and Note-Taking Possible Papers November 2014 Physics Grade 1
 - Interactive Elements Possible Papers November 2014 Physics Grade 1
8. Staying Engaged with Possible Papers November 2014 Physics Grade 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Possible Papers November 2014 Physics Grade 1
9. Balancing eBooks and Physical Books Possible Papers November 2014 Physics Grade 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Possible Papers November 2014 Physics Grade 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Possible Papers November 2014 Physics Grade 1
 - Setting Reading Goals Possible Papers November 2014 Physics Grade 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Possible Papers November 2014 Physics Grade 1
 - Fact-Checking eBook Content of Possible Papers November 2014 Physics Grade 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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