

**PHYSICS (Code No. 042)  
 COURSE STRUCTURE  
 Class XII – 2021-22 (Theory)**

**CLASS XII (2021-22)  
 (THEORY)**

**Time: 3 hrs.**

**Max Marks: 70**

		No. of Periods	Marks
Unit-I	Electrostatics	24	16
	Chapter-1: Electric Charges and Fields		
	Chapter-2: Electrostatic Potential and Capacitance		
Unit-II	Current Electricity	18	17
	Chapter-3: Current Electricity		
Unit-III	Magnetic Effects of Current and Magnetism	22	
	Chapter-4: Moving Charges and Magnetism		
	Chapter-5: Magnetism and Matter		
Unit-IV	Electromagnetic Induction and Alternating Currents	20	
	Chapter-6: Electromagnetic Induction		
	Chapter-7: Alternating Current		
Unit-V	Electromagnetic Waves	04	18
	Chapter-8: Electromagnetic Waves		
Unit-VI	Optics	27	
	Chapter-9: Ray Optics and Optical Instruments		
	Chapter-10: Wave Optics		
Unit-VII	Dual Nature of Radiation and Matter	08	12
	Chapter-11: Dual Nature of Radiation and Matter		
Unit-VIII	Atoms and Nuclei	15	
	Chapter-12: Atoms		
	Chapter-13: Nuclei		
Unit-IX	Electronic Devices	12	7
	Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits		
Total		150	70

# Physical Science Grade 11 12 Syllabus

**A Gutmann**



## **Physical Science Grade 11 12 Syllabus:**

Resources in Education ,2000-10      **Data for Learning** World Bank Group,2017-09-21 Data are a crucial ingredient in any successful education system but building and sustaining a data system are challenging tasks Many countries around the world have spent significant resources but still struggle to accomplish a functioning Education Management Information System EMIS On the other hand countries that have created successful systems are harnessing the power of data to improve education outcomes Increasingly EMISs are moving away from using data narrowly for counting students and schools Instead they use data to drive system wide innovations accountability professionalization and most important quality and learning This broader use of data also benefits classroom instruction and support at schools An effective data system ensures that education cycles from preschool to tertiary are aligned and that the education system is monitored so it can achieve its ultimate goal producing graduates able to successfully transition into the labor market and contribute to the overall national economy Data for Learning Building a Smart Education Data System and its forthcoming companion volume shed light on challenges in building a data system and provide actionable direction on how to navigate the complex issues associated with education data for better learning outcomes and beyond Data for Learning details the key ingredients of successful data systems including tangible examples common pitfalls and good practices It is a resource for policy makers working to craft the vision and strategic road map of an EMIS as well as a handbook to assist teams and decision makers in avoiding common mistakes It is designed to provide the how to and to guide countries at various stages of EMIS deployment A forthcoming companion volume will focus on digging deeper into the practical applications of education data systems by various user groups in different settings      **Research bulletin** ,1927      *Collaborative community partnerships across education settings* Mariëtte P. Koen,Luiza O. De Souza,2025-02-25 This book features chapters by scholars from various education fields specialising in sustainability As the first volume in North West University s Community based Educational Research Series it focuses on transforming education through a participatory approach The authors explore quality education across early childhood primary secondary and higher education by examining collaborative efforts among practitioners parents and teachers This scholarly book provides empirical evidence on how collaborative initiatives can promote sustainable development These initiatives encourage partnerships among community leaders educators learners nongovernmental organisations government and the private sector for lifelong learning and professional development It highlights southern African experiences in collaborative education aligned with the United Nations sustainable development goal of achieving quality education The book demonstrates various research designs and methods applied to educational practice from early childhood to tertiary levels through empirical research and community projects      **Multilingual Education Yearbook 2021** Anthony A. Essien,Audrey Msimanga,2021-05-04 This edited book attempts to foreground how challenges and complexities between policy and practice intertwine in the teaching and learning of the STEM subjects in multilingual

settings and how they policy and practice impact on educational processes developments and outcomes The unique feature of this book thus lies in its combination of not just language issues in the teaching and learning of the STEM subjects but also in how these issues relate to policy and practice in multilingual contexts and how STEM research and practice may inform and shape language policies and their implementation in multilingual contexts This book is of interest to stakeholders involved in STEM education such as researchers undergraduate and graduate students tertiary level teachers teacher educators curriculum developers as well as other professionals with responsibilities in STEM education subjects The book is written in a way that is accessible to a wide range of backgrounds including those who are in language education

**Teaching and Learning Astronomy** Jay Pasachoff, John Percy, 2005-12-15 Astronomy is taught in schools worldwide but few schoolteachers have any background in astronomy or astronomy teaching and available resources may be insufficient or non existent This volume highlights the many places for astronomy in the curriculum relevant education research and best practice strategies for pre service and in service teacher education the use of the Internet and other technologies and the role that planetariums observatories science centres and organisations of professional and amateur astronomers can play The special needs of developing countries and other under resourced areas are also highlighted The book concludes by addressing how the teaching and learning of astronomy can be improved worldwide This valuable overview is based on papers and posters presented by experts at a Special Session of the International Astronomical Union

**N E A Research Bulletin** ,1927  
Study and Master Physical Science Grade 11 `Teacher's Guide Karin H. Kelder, 2006-09-01 Study Master Physical Sciences Grade 11 takes a fresh and innovative look at the world around us and links science to our everyday lives All case studies and information on specialised fields companies and institutions were personally researched by the author and verified by experts in those fields companies and institutions

**Non-governmental Organisations in the Education of Underprivileged Children** Kajal Kumar Dutta, Vandana Talegaonkar, 2025-07-02 The present book addresses the role of NGOs in the educational development of underprivileged children and the various challenges of NGOs in educating underprivileged children The book comprehensively covers various aspects of NGO operations in alleviating the poverty and development of society through educational development of underprivileged children The book has opened up many critical areas exploring how NGOs are striving to supplement the goal of Education for all how suitable curriculum and pedagogy is being developed for underprivileged children the scope for a collaborative model of formal school systems and NGOs in formal education systems the need of CSR policy support for the NGOs from a long term perspective and why a sustainable model needs to be developed by the NGOs The book will be very useful for college university students education policy makers and CSR policy makers NGOs can use this book as a reference for effective management of education and can develop a strategy to work towards sustainability

*International Conference on Science Education 2012 Proceedings*  
Baohui Zhang, Gavin W. Fulmer, Xiufeng Liu, Weiping Hu, Shujin Peng, Bing Wei, 2014-05-06 This book contains papers

presented at the International Conference on Science Education 2012 ICSE 2012 held in Nanjing University Nanjing China It features the work of science education researchers from around the world addressing a common theme Science Education Policies and Social Responsibilities The book covers a range of topics including international science education standards public science education and science teacher education It also examines how STEM education has dominated some countries science education policy ways brain research might provide new approaches for assessment how some countries are developing their new national science education standards with research based evidence and ways science teacher educators can learn from each other Science education research is vital in the development of national science education policies including science education standards teacher professional development and public understanding of science Featuring the work of an international group of science education researchers this book offers many insightful ideas experiences and strategies that will help readers better understand and address challenges in the field     **Research in Education** ,1974

**Chemical News and Journal of Physical Science** ,1881     **The Chemical News and Journal of Physical Science** ,1900     **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1900     **The Scottish Educational Journal** ,1920     **Drum** ,2002     Annual Report - Dept. of Education, Nova Scotia Nova Scotia. Dept. of Education,1897     Science Education International ,1991     **Bulletin to the Schools** ,1927 Issues for 1975 v 61 include the Annual report of the New York State Education Department previously issued as a separate title call no 370 9747 N48r     Interim Report on Education and Citizenship in the Public School System of Puerto Rico Deborah Wolfe,United States. Congress. House. Committee on Education and Labor,1962

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## **Table of Contents Physical Science Grade 11 12 Syllabus**

1. Understanding the eBook Physical Science Grade 11 12 Syllabus
  - The Rise of Digital Reading Physical Science Grade 11 12 Syllabus
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 11 12 Syllabus
  - 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 Physical Science Grade 11 12 Syllabus
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 11 12 Syllabus
  - Personalized Recommendations
  - Physical Science Grade 11 12 Syllabus User Reviews and Ratings
  - Physical Science Grade 11 12 Syllabus and Bestseller Lists

5. Accessing Physical Science Grade 11 12 Syllabus Free and Paid eBooks
  - Physical Science Grade 11 12 Syllabus Public Domain eBooks
  - Physical Science Grade 11 12 Syllabus eBook Subscription Services
  - Physical Science Grade 11 12 Syllabus Budget-Friendly Options
6. Navigating Physical Science Grade 11 12 Syllabus eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Grade 11 12 Syllabus Compatibility with Devices
  - Physical Science Grade 11 12 Syllabus Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Grade 11 12 Syllabus
  - Highlighting and Note-Taking Physical Science Grade 11 12 Syllabus
  - Interactive Elements Physical Science Grade 11 12 Syllabus
8. Staying Engaged with Physical Science Grade 11 12 Syllabus
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Grade 11 12 Syllabus
9. Balancing eBooks and Physical Books Physical Science Grade 11 12 Syllabus
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Grade 11 12 Syllabus
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade 11 12 Syllabus
  - Setting Reading Goals Physical Science Grade 11 12 Syllabus
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade 11 12 Syllabus
  - Fact-Checking eBook Content of Physical Science Grade 11 12 Syllabus
  - 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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