PHYSIC SCHEME OF WORK FOR \$52:

WEEK	TOPIC
1	Sound waves - sources of sound, transmission of sound, speed of sounds in solid, liquid and gas, characteristics of sound
2	Sound waves - noise and music, forced vibration (resonance, harmonics and overtones), stationary waves
3	Application of sound waves – vibrations in strings and pipes, wind instruments, string instruments, percussion instruments, echoes and their application, hearing aids
4	Molecular theory of matter -pressure in fluids (concept of pressure, pressure in liquids, atmospheric pressure), applications of atmospheric pressure and gas pressure. Pascal's principle
5	Electromagnetic waves - electromagnetic spectrum
6	Gravitational field - gravitational force between two masses (Newton's law of universal gravitation), "G" as a universal constant, gravitational potential, escape velocity
7	Gravitational field - solar system, Kepler's laws, natural and artificial satellites
8	Electric fields -production of continuous charges (primary cells, secondary cells), electric circuit: series and parallel arrangement of cells and resistors
9	Electric fields -E.M.F of a cell, internal resistance of a cell, standard resistors and rheostats, resistivity and conductivity
10	Electric fields – shunts and multipliers (Galvanometer conversions), principle of the potentiometer, Wheatstone bridge, Meter bridge
11	Revision
12	Examination

WIEEK: ONE

DATE: 08/01/2024 - 12/01/2024

SUBJECT: PHYSICS CLASS: SS 2

TOPIC: SOUND WAVES

REFERENCE BOOK(S): NEW SCHOOL PHYSICSMW Anyakoha S and ESSENTIAL PHYSICS

INSTRUCTIONAL MATERIAL(S): PHYSICS TEXTBOOK

ENTRY BEHAVIOUR: COMMON KNOWLEDGE ABOUT SOUNDS AND HEARING

BEHAVIOURAL OBJECTIVES: At the end of this lesson, students should be able to:

- Sources of sounds
- II. How sound is transmitted
- III. Speed of sound in the three states of matter
- IV. Characteristics of sound

CONTENTS:

Sources of sound

Sound is obtained as a result of vibration in a material medium such as air and water, which helps to transmit wave. The nature of the vibration determines the type of sound produced. It is a longitudinal wave. Sound has a number of sources including sound from animals, moving aircraft, vehicles, vibrating turning fork, etc. Sound wave is also a mechanical wave. That is, it cannot travel through vacuum. There must be a material medium for its to propagate. Astronauts on the moon can only communicate each other via walkie-talkie even at close distance because there is no air molecule to propagate sound wave on the moon.

Physic 2nd Term Scheme Of Work

R Barnett

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Certificate Physics Form 2, The Syllabus of Physical Exercises for Public Elementary Schools, 1909 Great Britain. Progression and Progress in Physical Education Susan Capel, Margaret Whitehead, Julia Board of Education, 1911 Lawrence, 2024-11-25 How well do I take account of the needs of different classes and individual learners to facilitate and enhance progress Do I plan for progress based on where learners are currently at Does the curriculum facilitate and enhance progress Exploring these questions and more this book examines what progress in physical education looks like and conditions for facilitating and enhancing the progress of individual learners across different domains of learning Progression and Progress in Physical Education contains 12 units each of which highlights an aspect of progression or progress in physical education Throughout the book emphasises that it is individual learners that make progress therefore highlighting the importance of catering for the holistic individual learner Grouped into four sections units cover What is meant by progression progress and learning The holistic nature of individual learners The Physical Cognitive and Affective Domains of learning Teaching to facilitate and enhance progress Recognising and charting progress The role of the curriculum in facilitating and enhancing progress The broader context in which physical education teachers work Filled throughout with examples of existing good practice and useful tips this text will support all primary and secondary physical education teachers in facilitating and enhancing learner progress in physical education Arihant CBSE Physical Education Term 2 Class 12 for 2022 Exam (Cover Theory and MCOs) Reena Kar ,2021-11-11 With the newly introduced 2 Term Examination Pattern CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus Introducing Arihant's CBSE TERM II 2022 Series the first of its kind that gives complete emphasis on the rationalized syllabus of Class 10th 12th The all new CBSE Term II 2022 Physical Education of Class 12th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams The book provides topical coverage of all the chapters in a complete and comprehensive manner Covering the 50% of syllabus as per Latest Term wise pattern 2021 22 this book consists of 1 Complete Theory in each Chapter covering all topics 2 Case Based Short and Long Answer Type Question in each chapter 3 Coverage of NCERT NCERT Examplar Board Exams Questions 4 Complete and Detailed explanations for each question 5 3 Practice papers based on the entire Term II Syllabus Table of Content Yoga and Life Style Physical Education and Sports for CWSN Physiology and Sports Training in Sports Practice Papers 1 3 Arihant CBSE Physical Education Term 2 Class 11 for 2022 Exam (Cover Theory and MCQs) Reena Kar, Tushar Shukla, 2021-11-20 With the newly introduced 2 Term Examination Pattern CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus Introducing Arihant's CBSE TERM II 2022 Series the first of its kind that gives complete emphasis on the rationalized syllabus of Class 9th to 12th The all new CBSE Term II 2022 Physical Education of Class 11th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams The book provides topical coverage of all the

chapters in a complete and comprehensive manner Covering the 50% of syllabus as per Latest Term wise pattern 2021 22 this book consists of 1 Complete Theory in each Chapter covering all topics 2 Case Based Short and Long Answer Type Question in each chapter 3 Coverage of NCERT NCERT Examplar Board Exams Questions 4 Complete and Detailed explanations for each question 5 3 Practice papers based on the entire Term II Syllabus Table of Content Physical Education and Sports for CWSN Yoga Physical Activity and Leadership Training Psychology and Sports Training and Doping in sports Learning to Teach Physical Education in the Secondary School Susan Capel, Joanne Cliffe, Julia Lawrence, 2020-10-05 This fully updated fifth edition of Learning to Teach Physical Education in the Secondary School is a comprehensive yet accessible guide for all student secondary physical education teachers Practical and insightful advice is combined with theory and research to support you in developing as a student teacher This core text is an ideal guide to support you in developing your knowledge for teaching your basic teaching skills and your ability to reflect critically on what you are doing and why enabling you to cope in a range of teaching situations Including updated material to cover changes in policy and practice curriculum and assessments the fifth edition of this essential textbook focuses on Starting and developing your teaching journey Planning teaching and evaluating physical education lessons for effective pupil learning Looking beyond your teacher education New chapters include Essential knowledge bases for teaching physical education Guidance on using digital technologies Health in the physical education lesson Written with university and school based initial teacher education in mind Learning to Teach Physical Education in the Secondary School is an essential source of support and guidance for all student physical education teachers embarking on the challenging journey of developing as an effective teacher Teaching Physical Education in the Primary School Ian Pickup, Lawry Price, 2007-05-11 This is a comprehensive yet accessible guide to the teaching and learning of physical education in the primary school By taking a developmental approach readers are encouraged to plan lessons that are individually relevant worthwhile and exciting for children and to ensure that learning is at the heart of the physical education experience In addition to covering all activity areas of the physical education curriculum the authors provide guidance to ensure that the subject is planned delivered assessed and managed effectively Teachers are encouraged to consider a range of issues that impact on subject delivery and reflect on strategies and skills required for effective subject leadership This book is invaluable reading for all in service and trainee primary teachers and those who work within wider school sports partnerships It provides a theoretical and practical focus for those wishing to deliver high quality physical education in the primary school A Practical Guide to Teaching Physical Education in the Secondary School Susan Capel, Joanne Cliffe, Julia Lawrence, 2020-11-16 A Practical Guide to Teaching Physical Education in the Secondary School is written for all student teachers on university and school based initial teacher education programmes It offers a wealth of tried and tested strategies together with practical activities and materials to support your teaching to enhance pupils learning It is designed for you to dip in and out of and enable you to focus on

specific areas of teaching your programme or pupils learning This third edition is fully updated with the most recent developments in teaching physical education and features five brand new chapters Key topics covered include Planning schemes of work units of work and lessons Safe practice risk assessment and risk management Promoting positive behaviour Applying theories of learning to your practice Overcoming barriers and maximising the achievement of all pupils Assessing learning Physical literacy NEW Health related learning NEW Using digital technologies NEW Reflective practice and action research Managing your workload resilience health and well being NEW Working with your mentor NEW Photocopiable resources offer assistance in lesson observation planning preparation teaching and evaluation An annotated Further resources section at the end of each chapter provides information about some useful additional resources to support you in your development as a teacher Illustrated throughout with examples of existing good practice this highly practical resource offers valuable support and guidance to all student teachers as well as those in the early years of their teaching career Although A Practical Guide to Teaching Physical Education in the Secondary School 3rd Edition can be used successfully on its own it is also a companion to Learning to Teach Physical Education in the Secondary School 5th Edition and can be used to reinforce the basic teaching skills covered in that core textbook Arihant CBSE Physics Term 2 Class 12 for 2022 Exam (Cover Theory and MCQs) Manish Dangwal, 2021-11-20 With newly introduced 2 Term Examination Pattern CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus Introducing Arihant's CBSE TERM II 2022 Series the first of its kind that gives complete emphasize on the rationalize syllabus of Class 10th 12th The all new CBSE Term II 2022 Physics of Class 12th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams The book provides topical coverage of all the chapters in a complete and comprehensive manner Covering the 50% of syllabus as per Latest Term wise pattern 2021 22 this book consists of 1 Complete Theory in each Chapter covering all topics 2 Case Based Short and Long Answer Type Question in each chapter 3 Coverage of NCERT NCERT Examplar Board Exams Questions 4 Complete and Detailed explanations for each question 5 3 Practice papers base on entire Term II Syllabus Table of Content Electromagnetic Waves Ray Optics and Optical Instruements Wave Optics Dual Nature of Radiation and Matter Atoms Nuclei Semiconductor Electronics Materials Devices and Simple Circuits Practice Papers 1 3 Catalogue Missouri. University, 1891 Proceedings of the American Association for the Advancement of Physical Education at Its ... Annual Meeting American Physical Education Association, 1885 Arihant CBSE Physics Term 2 Class 11 for 2022 Exam (Cover Theory and MCQs) Rajiv Pandey, 2021-11-20 With newly introduced 2 Term Examination Pattern CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus Introducing Arihant s CBSE TERM II 2022 Series the first of its kind that gives complete emphasize on the rationalize syllabus of Class 9th to 12th The all new CBSE Term II 2022 Physics of Class 11th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams The book provides topical coverage of all the chapters in a complete and comprehensive

Handbook on Securing Cyber-Physical Critical Infrastructure Sajal K Das, Krishna Kant, Nan Zhang, 2012-01-31 Introduction Securing Cyber Physical Infrastructures An Overview Part 1 Theoretical Foundations of Security Chapter 1 Security and Vulnerability of Cyber Physical Infrastructure Networks A Control Theoretic Approach Chapter 2 Game Theory for Infrastructure Security The Power of Intent Based Adversary Models Chapter 3 An Analytical Framework for Cyber Physical Networks Chapter 4 Evolution of Widely Spreading Worms and Countermeasures Epidemic Theory and Application Part 2 Security for Wireless Mobile Networks Chapter 5 Mobile Wireless Network Security Chapter 6 Robust Wireless Infrastructure against Jamming Attacks Chapter 7 Security for Mobile Ad Hoc Networks Chapter 8 Defending against Identity Based Attacks in Wireless Networks Part 3 Security for Sensor Networks Chapter 9 Efficient and Distributed Access Control for Sensor Networks Chapter 10 Defending against Physical Attacks in Wireless Sensor Networks Chapter 11 Node Compromise Detection in Wireless Sensor N **Dictionary of Physics** Palgrave Macmillan Ltd, 2016-04-30 The Dictionary of Physics is a major reference source in the vast and dynamic field of physics that caters for both the undergraduate and graduate student Spanning the space between the primary literature and educational texts it encompasses 16 000 entries and 1 8 million words in four volumes Physical Chemistry E. A. Moelwyn-Hughes, 2015-12-03 Originally published in 1947 this book provides a student's guide to physical chemistry. It incorporates introductory material on the subject together with more detailed information appropriate to a degree level qualification The basic principles of physical chemistry as understood at the time are applied to a number of simple problems arranged in a logical order <u>Joint Volumes of Papers Presented to</u> the Legislative Council and Legislative Assembly New South Wales. Parliament, 1905 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 Report of the Commissioners on Agricultural, Commercial, Industrial, and Other Forms of Technical Education New South

Wales. Commission on Primary, Secondary, Technical, and Other Branches of Education, 1905 **Physical Chemistry and Scientific Thought** William Cudmore McCullagh Lewis, 1914 *Chemical News and Journal of Physical Science*, 1908

Physic 2nd Term Scheme Of Work Book Review: Unveiling the Power of Words

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web abbreviation description 98 lati lateral 99 lb s pound s symbol for pounds 100 lg length long level gauge 101 lin ft liner feet 102 lj lap joint flange 103 llc liquid level controller 104 lol latrolet 105 lp line pipe 106 lr long radius 107 m meter one thousand 108 m f male and female ends 109 mat

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