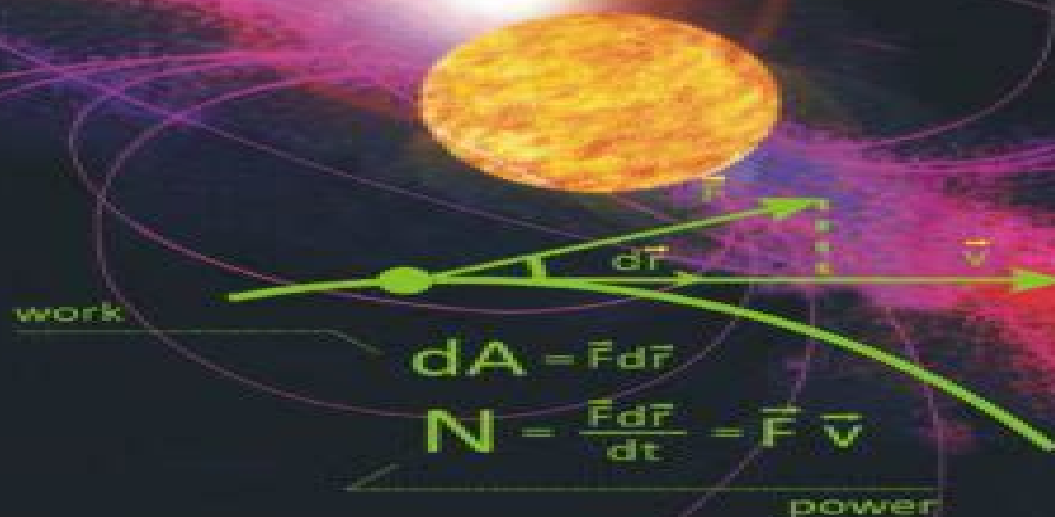


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Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Dr. J. P. Goel ,Er. Meera Goyal,2020-06-24

SECTION A EXPERIMENTS

1 Measurement of Length 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i.e. capacity Viva voce 2 Screw Gauge Micrometer 4 To determine the diameter of a given wire using a screw gauge and find its volume 5 To find the thickness of a given sheet with the help of screw gauge 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot L vs T and L vs T^2 graphs Hence find the effective length of a second's pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and $\sin$ Viva voce

SECTION B EXPERIMENTS

1 Elasticity 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle's Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and $1/V$ 18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the coefficient of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton's Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce

SECTION A ACTIVITIES

1 To make a paper scale of given least count e.g. 0.2 cm, 0.5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying principle of moments Viva voce 3 To plot a graph for a given set of data using proper

choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce SECTION B ACTIVITIES 1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables

Practical/Laboratory Manual Biology Class XI based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. Sunita Bhagia ,Megha Bansal,2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards Introduction 1 Necessary equipments chemicals and other things for practical work 2 General Instructions for practical work 3 Special Instructions for practical note book Drawing and Recording 4 Special Instructions for spotting EXPERIMENTS 1 To study and describe the flowering plant belonging to family one from each of the families a Solanaceae b Fabaceae c Liliaceae 2 To prepare temporary slide of transverse section of dicot monocot stem dicot monocot root 3 To study osmosis by potato osmometer 4 To study of plasmolysis in epidermal peel of Tradescantia or Rhoeo leaf 5 To study the distribution of stomata on the upper and lower surface of a leaf 6 To compare the rate of transpiration in upper and lower surface of the leaf 7 To test the presence of sugars Glucose Sucrose and Starch proteins and fats and to detect their presence in suitable plant and animal materials 8 To study the separation of plant pigments by paper chromatography 9 To study the rate of respiration in flower buds leaf tissue and germinating seeds 10A To test presence of urea in urine 10B To test presence of sugar in urine 10C To detect presence of albumin in urine 10D To test urine for presence of bile salt SPOTTING 1 Study of compound microscope 2 To study the plant specimen and identification with reasons Bacteria Oscillatoria Spirogyra Rhizopus Mushroom Yeast Liverwort Moss Fern Pine One Monocotyledonous plant One dicotyledonous plant and one Lichen 3 Study of animal specimens 1 Amoeba 2 Hydra 3 Fasciola Hepatica Liver fluke 4 Ascaris Lumbricoides 5 Hirudinaria Granulosa 6 Pheretima Posthuma 7 Palaemon 8 Bombyx Mori 9 Apis Indica Honeybee 10 Pila Globosa Snail 11 Asterias Starfish 12 Scoliodon Dogfish Shark 13 Labeo Rohita Rohu 14 Rana Tigrina Frog 15 Hemidactylus Lizard 16 Columba Livia Pigeon 17 Oryctolagus Cuniculus Rabbit 4A To study the plant tissues Palisade cells Guard cells Parenchyma Collenchyma Sclerenchyma Xylem and Phloem through prepared slide 4B To study the animal tissue squamous epithelium muscles fibres through prepared slide 4C To study mammalian blood smear by temporary

permanent slide 5 Study of mitosis in root tip of onion 6 Study of different modification in root stem and leaves 7 To study and identify different types of inflorescence Racemose and Cymose 8 To study imbibition in seed raisins 9 To demonstrate that anaerobic respiration take place in the absence of air 10 To study human skeleton and joints 11 To study the external features of cockroach with help of model or chart

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A Basic Laboratory Techniques 1 To cut a glass tube or glass rod 2 To bend the glass rod at an angle 3 To draw a glass jet from a glass tube 4 To bore a cork and fit a glass tube into it

B Characterisation and Purification of Chemical Substances 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample 4 To prepare the pure crystals of copper sulphate from the given crude sample 5 To prepare pure crystals of benzoic acid from a given impure sample

C Measurement of pH Values 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+

D Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between $Co(H_2O)_6^{2+}$ and Cl^- ions by changing the concentrations of either of the ions

E Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

F Qualitative Analysis 1 Analysis of Anions 2 Analysis of Cations

G Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test

INVESTIGATORY PROJECTS

A Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions

B Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method

C Water Analysis 1 To test the hardness of different water samples

D

Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table NCERT Chemistry Class 11 - [CBSE Board] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-10-11 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table *Oswaal CBSE Sample Question Papers Physics, Chemistry, Mathematics, English Core Class 11 (Set of 4 Books) For 2025 Exam* Oswaal Editorial Board,2024-08-27 Description of the product This product covers the following Fresh Relevant with the Latest Typologies of Questions Score Boosting Insightswith 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready to Practice with 5 Solved 5 Self Assessment Papers *Oswaal CBSE & NCERT One for All Class 12 Physics (For 2024 Exam)* Oswaal Editorial Board,2023-07-19 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalized NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions **Oswaal CBSE Question Bank Class 11 Physics, Chapterwise and Topicwise Solved Papers For 2025 Exams** Oswaal Editorial Board,2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind

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Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions **Oswaal CBSE Question Bank Class 12 Physics, Chapterwise and Topicwise Solved Papers For Board Exams 2025** Oswaal Editorial Board,2024-01-23 Description of the product 100% Updated Syllabus Fully Solved Board Papers we have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics Extensive Practice with 3000 Questions Board Marking Scheme Answers to give you 3000 chances to become a champ Concept Clarity with 1000 Concepts 50 Concept Videos for you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Art Integration Competency Based Questions for you to be on the cutting edge of the coolest educational trends Chemistry Class XI - SBPD Publications Dr. Subhash Chandra Rastogi, ,Er. Meera Goyal,2022-02-17 Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table Chemistry Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-07-20 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XIV Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table *Core Laboratory Manual of Physics for Class XI* Anil Sharma,Prashant Sharma,Goyal Brothers Prakashan,2020-04-16 Goyal Brothers Prakashan *Applied Physics II | AICTE Prescribed Textbook - English* Hussain Jeevakhan,2021-11-01 1 Applied Physic II With Lab Manual by Hussain Jeevakhan 789391505578 DIP126EN Applied Physics II is a basic science course in the first year of the Diploma program in Engineering Technology Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes based education OBE Book covers seven topics Wave motion Optics Electrostatics Current electricity Electromagnetism semiconductor physics and Modern physics Each topic and its subtopics are written from the perspective of a student s learning and in accord with the NEP 2020 guidelines Every unit comprises a set of activities and exercise at the

end to assist the student s learning Some salient features of the book l Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes l Book Provides relevant interesting facts QR Code for E resources and use of ICT and suggested micro projects activities in each unit l Content presented in book in chronological way l Figures tables and equations are given to improve clarity of the topics l Solved examples are given with systematic steps l MCQ s short and long answer questions and unsolved problems of understanding and above levels Bloom s Taxonomy are given for learning reinforcement of students and as per OBE

□□□ □□□□□□□□ (Jeev Vigyan - Biology) Class XI (Based on NCERT) Dr. Sunita Bhagiya, ,Megha Bansal,2022-02-17

- 1 The Living World
- 2 Biological Classification
- 3 Plant Kingdom
- 4 Animal Kingdom
- 5 Morphology Of Flowering Plants
- 6 Anatomy Of Flowering Plants
- 7 Structural Organisation In Animals
- 8 Cell The Unit Of Life
- 9 Biomolecules
- 10 Cell Cycle And Cell Division
- 11 Transport In Plants
- 12 Mineral Nutrition
- 13 Photosynthesis In Higher Plants
- 14 Respiration In Plants
- 15 Plant Growth And Development
- 16 Digestion And Absorption
- 17 Breathing And Exchange Of Gases
- 18 Body Fluids And Circulation
- 19 Excretory Products And Their Elimination
- 20 Locomotion And Movements
- 21 Neural Control And Coordination
- 22 Hemical Coordination And Integration

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- 1 Some Basic Concepts of Chemistry
- 2 Structure of Atom
- 3 Classification of Elements and Periodicity in Properties
- 4 Chemical Bonding and Molecular Structure
- 5 States of Matter
- 6 Thermodynamics
- 7 Equilibrium
- 8 Oxidation Reduction or Redox Reactions
- 9 Hydrogen
- 10 s Block Elements
- 11 p Block Elements
- 12 Organic Chemistry Some Basic Principles and Techniques
- 13 Hydrocarbons
- 14 Environmental Chemistry

Appendix l Log Antilog Table l VBQ l HOTS l Latest Model Paper l Examination Paper

CBSE/NCERT Jeev Vigyan - Biology Class - 11 Dr. Sunita Bhagiya ,Megha Bansal,2023-07-16

- 1 The Living World
- 2 Classification of Living Beings
- 3 Plant Kingdom
- 4 Animal Kingdom
- 5 Morphology of Flowering Plants
- 6 Anatomy of Flowering Plants
- 7 Structural Organization in Animals
- 8 Cell Structural and Functional Unit
- 9 Biomolecules
- 10 Cell Cycle and Cell Division
- 11 Transportation in Plants
- 12 Mineral Nutrition in Plants
- 13 Photosynthesis in Higher Plants
- 14 Respiration in Plants
- 15 Growth and Development in Plants
- 16 Digestion and Absorption
- 17 Respiration and Gaseous Exchange
- 18 Circulation of Body Fluid
- 19 Excretory Products and their Excretion
- 20 Locomotion and Movement
- 21 Nervous Control and Co ordination
- 22 Chemical Co ordinations and Controlling
- 22 Latest Model Paper
- 22 Examinations paper

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Table of Contents Ncert Physics Lab Manual Class Xi

1. Understanding the eBook Ncert Physics Lab Manual Class Xi
 - The Rise of Digital Reading Ncert Physics Lab Manual Class Xi
 - Advantages of eBooks Over Traditional Books
2. Identifying Ncert Physics Lab Manual Class Xi
 - 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 Ncert Physics Lab Manual Class Xi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ncert Physics Lab Manual Class Xi
 - Personalized Recommendations
 - Ncert Physics Lab Manual Class Xi User Reviews and Ratings
 - Ncert Physics Lab Manual Class Xi and Bestseller Lists
5. Accessing Ncert Physics Lab Manual Class Xi Free and Paid eBooks

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