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Edexcel GCSE (9-1) Combined Science Core Practical Lab Book 2 Mar 17 2020 The Edexcel GCSE (9-1) Combined Science Lab Books are a new type of resource to support you in completing the GCSE Combined Science Core Practical requirements. Lab Book 1 covers the first 9 Edexcel Combined Science Core Practicals that you have to perform in preparation for your GCSE exam. Lab Book 2 covers the other 9 Core Practicals. Each Lab Book will help you to: develop a stronger understanding of the skills and knowledge for the assessment of Core Practicals create a record of all of the Core Practical work they will have done in preparation for revision practise answering practical based exam-style questions, in a similar format to the exam. Each Lab Book includes: all the instructions you need to perform the Core Practicals writing frames for you to record your results and reflect on your work a selection of practical based exam-style questions, taken from our Edexcel GCSE (9-1) Combined Science Student Book a Practical Skills Checklist, so that you can track the practical skills you have learned in preparation for the exam an illustrated list of the equipment you will use during your Combined Science Course a full list of equations that you need to learn a full set of answers at the back.

Science Lab Manual Oct 04 2021 Lab Manual

Fingerprint Analysis Laboratory Workbook Oct 16 2022 Fingerprint analysis may be performed as part of many jobs, including crime scene technician, latent print examiner, criminalist, latent print technician, forensic specialist, and forensic scientist. Regardless of one's specific discipline, a background knowledge of scientific practices in handling and analyzing fingerprint evidence is critical for success. The best way to comprehend the principles and concepts of any science learned in a classroom is to perform experiments. The exercises in Fingerprint Analysis Laboratory Workbook address all aspects of fingerprint theory, investigation, processing, comparisons, and research. Designed specifically to parallel the Fundamentals of Fingerprint Analysis textbook, the laboratory exercises correspond with the textbook chapters, with each exercise in the lab chapter putting into practice the concepts covered in the text chapter. Each lab follows the same format, starting with the objectives of the experiment and background information needed before performing the experiment. This is followed by a list of required materials, the lab exercises, and post-lab questions for students to test their assimilation of what they've learned. Many of the laboratory exercises may be completed either at home or in a laboratory setting. Exercises and photographs enhance

the text, making it an ideal hands-on learning tool.

Advanced Turfgrass Management Lab Manual Mar 09 2022 Turfgrasses are used for many purposes such as golf courses, sports fields, and a variety of commercial and homeowner settings. Many other uses include other recreational activities, functional uses such as roadsides and airports, and for a variety of erosion control activities. Successful turfgrass management does not occur by chance. This book provides the in-depth knowledge and understanding of the science needed to accomplish this. Units (chapters) are arranged so as to build upon previous ones to help improve the reader's understanding of the science and art of successful turfgrass management.

Wireshark Workbook 1 Nov 17 2022 Wireshark is the world's most popular network analyzer solution. Used for network troubleshooting, forensics, optimization and more, Wireshark is considered one of the most successful open source projects of all time. Laura Chappell has been involved in the Wireshark project since its infancy (when it was called Ethereal) and is considered the foremost authority on network protocol analysis and forensics using Wireshark. This book consists of 16 labs and is based on the format Laura introduced to trade show audiences over ten years ago through her highly acclaimed "Packet Challenges." This book gives you a chance to test your knowledge of Wireshark and TCP/IP communications analysis by posing a series of questions related to a trace file and then providing Laura's highly detailed step-by-step instructions showing how Laura arrived at the answers to the labs. Book trace files and blank Answer Sheets can be downloaded from this book's supplement page (see <https://www.chappell-university.com/books>). Lab 1: Wireshark Warm-Up Objective: Get Comfortable with the Lab Process. Completion of this lab requires many of the skills you will use throughout this lab book. If you are a bit shaky on any answer, take time when reviewing the answers to this lab to ensure you have mastered the necessary skill(s). Lab 2: Proxy Problem Objective: Examine issues that relate to a web proxy connection problem. Lab 3: HTTP vs. HTTPS Objective: Analyze and compare HTTP and HTTPS communications and errors using inclusion and field existence filters. Lab 4: TCP SYN Analysis Objective: Filter on and analyze TCP SYN and SYN/ACK packets to determine the capabilities of TCP peers and their connections. Lab 5: TCP SEQ/ACK Analysis Objective: Examine and analyze TCP sequence and acknowledgment numbering and Wireshark's interpretation of non-sequential numbering patterns. Lab 6: You're Out of Order! Objective: Examine Wireshark's process of distinguishing between out-of-order packets and retransmissions and identify mis-identifications. Lab 7: Sky High Objective: Examine and analyze traffic captured as a host was redirected to a malicious site. Lab 8: DNS Warm-Up Objective: Examine and analyze DNS name resolution traffic that contains canonical name and multiple IP address responses. Lab 9: Hacker Watch Objective: Analyze TCP connections and FTP command and data channels between hosts. Lab 10: Timing is Everything Objective: Analyze and compare

path latency, name resolution, and server response times. Lab 11: The News Objective: Analyze capture location, path latency, response times, and keepalive intervals between an HTTP client and server. Lab 12: Selective ACKs Objective: Analyze the process of establishing Selective acknowledgment (SACK) and using SACK during packet loss recovery. Lab 13: Just DNS Objective: Analyze, compare, and contrast various DNS queries and responses to identify errors, cache times, and CNAME (alias) information. Lab 14: Movie Time Objective: Use various display filter types, including regular expressions (regex), to analyze HTTP redirections, end-of-field values, object download times, errors, response times and more. Lab 15: Crafty Objective: Practice your display filter skills using "contains" operators, ASCII filters, and inclusion/exclusion filters, while analyzing TCP and HTTP performance parameters. Lab 16: Pattern Recognition Objective: Focus on TCP conversations and endpoints while analyzing TCP sequence numbers, Window Scaling, keep-alive, and Selective Acknowledgment capabilities.

Hard Bound Lab Manual Science Apr 17 2020 Lab Manuals

*AQA GCSE Combined Science (9-1) Required Practicals Lab Book Apr 10 2022 Exam board: AQA Level & Subject: GCSE Combined Science: Trilogy First teaching: September 2016 First exam: June 2018 To support students in their completion of the required practicals on their GCSE Science (9-1) course, the Collins AQA lab book is the only resource that they need. This lab book will: * provide students with all the information they need to perform their required practicals; including the method, apparatus needed, common mistakes and safety tips * be the one place to record the outcomes of practicals, providing an easy reference for revision * challenge students with extra questions designed to improve analysis, evaluation and maths skills * prepare students for their examinations, with exam-style questions directly linked to the required practicals and apparatus use.*

Lab Manual Nov 05 2021 Build skill and confidence in the lab with the 59 experiments included in this manual. Safety is strongly emphasized throughout the lab manual. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION Feb 20 2023 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment, and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions and troubleshooting techniques.

Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with:

- Analog and digital devices
- Design of circuits
- Instruments and procedures for electronic test and measurement

Physics Lab Manual Class XI | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum Feb 14 2020 With the NEP 2020 and expansion of research and knowledge has changed the face of education to a great extent. In the Modern times, education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects. This way of education helps a student to grasp the basic concepts and principles. Thus, trying to break the stereotype that subjects like Physics, Chemistry and Biology means studying lengthy formulas, complex structures, and handling complicated instruments, we are trying to make education easy, fun, and enjoyable.

*Laboratory Manual for Non-Majors Biology Mar 29 2021 One of the best ways for your students to succeed in their biology course is through hands-on lab experience. With its 46 lab exercises and hundreds of color photos and illustrations, the **LABORATORY MANUAL FOR NON-MAJORS BIOLOGY, Sixth Edition**, is your students' guide to a better understanding of biology. Most exercises can be completed within two hours, and answers to the exercises are included in the Instructor's Manual. The perfect companion to Starr and Taggart's **BIOLOGY: THE UNITY AND DIVERSITY OF LIFE**, as well as Starr's **BIOLOGY: CONCEPTS AND APPLICATIONS**, and **BIOLOGY TODAY AND TOMORROW**, this lab manual can also be used with any introductory biology text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

*Workbook and Lab Manual for Sonography - E-Book Jun 12 2022 Review important sonography learnings with Curry and Prince's **Workbook for Sonography: Introduction to Normal Structure and Function, 5th Edition**. This well-constructed review tool supports and completes the main text by providing an excellent introduction to sonography while preparing users to accurately identify sonographic pathology and abnormalities. Each workbook chapter opens with review questions on material from the corresponding chapter in the main text. Review questions are followed by drawings from the text — with parallel sonograms where appropriate — that include leader lines to label structures, but not the labels themselves. Workbook users will fill in the labels to identify structures in the drawings and sonograms, reinforcing visual and auditory learning from the text. Answers can be looked up in both the workbook appendix and by comparing the workbook figures to the labeled figures in the main text. Unlabeled line drawings and images from every chapter provide reinforcement of what you should be noticing on the scan. Direct correlation with each chapter from the main text enables*

immediate, thorough review of material. Review questions test your knowledge of the information learned in the text. NEW! Chapter on musculoskeletal sonography covers the latest use of ultrasound technology to visualize muscle, tendon, and ligament anatomy. NEW! Chapter devoted to pediatric sonography introduces you to the knowledge needed to work in this nascent specialty. NEW! Coverage of 5D technology familiarizes you with automated volume scanning. NEW! Updated content reflects the latest ARDMS standards and AIUM guidelines. NEW! Updated line drawings accompany new sonograms.

DIALOG Lab Workbook Jun 19 2020

Edexcel GCSE Combined Science Lab Book, 2nd Edition Dec 18 2022

Hard Bound Lab Manual Biology Oct 24 2020 Lab Manuals

A+ Guide to IT Technical Support (Hardware and Software) May 19 2020 This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ Guide to IT Technical Support, 9th Edition closely integrates the CompTIA+ Exam objectives to prepare you for the 220-901 and 220-902 certification exams. The new Ninth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair and information technology. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. The new edition features more coverage of updated hardware, security, virtualization, new coverage of cloud computing, Linux and Mac OS, and increased emphasis on mobile devices. Supported by a wide range of supplemental resources to enhance learning with Lab Manuals, CourseNotes online labs and the optional MindTap that includes online labs, certification test prep and interactive exercises and activities, this proven text offers students an ideal way to prepare for success as a professional IT support technician and administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Principles of Biology I Jul 13 2022

Lab Manual Biology Class 12 Feb 25 2021 Lab Manual

Open-Source Lab Sep 22 2020 Open-Source Lab: How to Build Your Own Hardware and Reduce Scientific Research Costs details the development of the free and open-source hardware revolution. The combination of open-source 3D printing and microcontrollers running on free software enables scientists, engineers, and lab personnel in every discipline to develop powerful research tools at unprecedented low costs. After reading Open-Source Lab, you will be able to: Lower equipment costs by making your own hardware Build open-source hardware for scientific research Actively participate in a community in which scientific results are more easily replicated and

cited Numerous examples of technologies and the open-source user and developer communities that support them Instructions on how to take advantage of digital design sharing Explanations of Arduinos and RepRaps for scientific use A detailed guide to open-source hardware licenses and basic principles of intellectual property

DIALOG Lab Workbook & Reference Manual Apr 29 2021

ICSE-Lab Manual Chemistry-TB-10 Oct 12 2019 ICSE-Lab Manual Chemistry-TB-10 AQA GCSE Combined Science Lab Book, 2nd Edition Jan 19 2023 Series Editor: Stella Paes Part of the 2nd edition (2018/2019) AQA GCSE (9-1) Science Lab Book series, providing separate books for each of the Single Sciences (Biology, Chemistry and Physics) and one Combined Science book. Aligned precisely with the AQA GCSE (9-1) Science specifications, the write-in Lab books cover the full range of practicals needed to cover AQA's practical requirements for both the Trilogy and Synergy courses. Each 2nd edition Lab Book guides students through the scientific process and includes: all the instructions students need to perform the Required Practical with confidence and fully grasp the scientific methodology writing frames structured around the assessment objectives to allow students to record, analyse and evaluate their results exam-style questions focused on common problem areas for students a Practical Skills checklist, so that students can track the practical skills and content they have learnt in preparation for their exam and free online technician notes. All the worksheets and methods have been reviewed and checked by CLEAPSS so you can be certain the practicals work and are safe in the classroom.

Learning the Art of Electronics Sep 03 2021 This introduction to circuit design is unusual in several respects. First, it offers not just explanations, but a full course. Each of the twenty-five sessions begins with a discussion of a particular sort of circuit followed by the chance to try it out and see how it actually behaves. Accordingly, students understand the circuit's operation in a way that is deeper and much more satisfying than the manipulation of formulas. Second, it describes circuits that more traditional engineering introductions would postpone: on the third day, we build a radio receiver; on the fifth day, we build an operational amplifier from an array of transistors. The digital half of the course centers on applying microcontrollers, but gives exposure to Verilog, a powerful Hardware Description Language. Third, it proceeds at a rapid pace but requires no prior knowledge of electronics. Students gain intuitive understanding through immersion in good circuit design.

Biology for Edexcel International GCSE Feb 08 2022

AQA GCSE Biology (9-1) Required Practicals Lab Book Sep 15 2022 Exam board: AQA Level & Subject: GCSE Biology First teaching: September 2016 First exam: June 2018 To support students in their completion of the required practicals on their GCSE Science (9-1) course, the Collins AQA lab book is the only resource that they need. This lab book will: provide students with all the information they need to perform their*

required practicals; including the method, apparatus needed, common mistakes and safety tips be the one place to record the outcomes of practicals, providing an easy reference for revision* challenge students with extra questions designed to improve analysis, evaluation and maths skills* prepare students for their examinations, with exam-style questions directly linked to the required practicals and apparatus use.*

Student Lab Notebook Dec 14 2019 Biology Lab Notebook / Graph Paper / Lab Journal for Students / Laboratory Notebooks / Chemistry Lab Notebook / Science Lab Notebook / Science Mathematics Physics This lab notebook is for professionals looking for a crafted record of student lab notebook, research, hypotheses, experiments and initial analysis or interpretation of these experiments or journal for documenting their work. Grid ruled 1/4 inch per square with thin lines that don't overpower personal notation. Size 8 x 10 Inches, 110 pages of blank graph paper.

Lab Manual-Physics-TB-12_E-R Nov 12 2019 Lab Manual-Physics-TB-12_E-R

The Practical Xilinx Designer Lab Book Dec 26 2020

Maths Lab Jul 01 2021 Explore the exciting world of numbers Whether you're a maths geek or prefer practical hands-on projects, this ebook combines creativity with calculations. You don't have to be a genius or even need a calculator - each of the super-fun make-and-do projects in this ebook comes with simple step-by-step photographs and instructions that will help you whip up a cool maths creation. Perfect for kids who are interested in STEM (science, technology, engineering, and maths), Maths Lab features activities that cover many aspects of maths, including numbers, measurement, and geometry. You'll combine art and maths by drawing impossible objects, create beautiful patterns to make a times-table dreamcatcher, and perfect the ratio for making refreshing fruit drinks. Throughout the ebook, explanatory boxes show you how the maths works and how the skills you've learned can be used in the real world. Maths Lab is the perfect package for curious kids who are interested in taking the mystery out of maths.

Lab Manual Chemistry Class XII -by Dr. K. N. Sharma, Dr. Subhash Chandra Rastogi, Er. Meera Goyal (SBPD Publications) Dec 06 2021 Highly Useful for Various Engineering and Medical Competitive Examinations.

Introduction to Networks Lab Manual V5. 1 Aug 22 2020 The Introduction to Networks Lab Manual provides students enrolled in a Cisco Networking Academy Introduction to Networks course with a convenient, complete collection of all the course lab exercises that provide hands-on practice and challenges.

Applied Biomechanics Lab Manual Aug 02 2021 Applied Biomechanics Laboratory Manual offers 13 easy-to-follow experiential-based learning labs, offering students conceptual understanding of biomechanics to practical applications.

The Fusarium Laboratory Manual Jan 07 2022 For the first time in over 20 years, a comprehensive collection of photographs and descriptions of species in the fungal genus

Fusarium is available. This laboratory manual provides an overview of the biology of *Fusarium* and the techniques involved in the isolation, identification and characterization of individual species and the populations in which they occur. It is the first time that genetic, morphological and molecular approaches have been incorporated into a volume devoted to *Fusarium* identification. The authors include descriptions of species, both new and old, and provide protocols for genetic, morphological and molecular identification techniques. The *Fusarium* Laboratory Manual also includes some of the evolutionary biology and population genetics thinking that has begun to inform the understanding of agriculturally important fungal pathogens. In addition to practical "how-to" protocols it also provides guidance in formulating questions and obtaining answers about this very important group of fungi. The need for as many different techniques as possible to be used in the identification and characterization process has never been greater. These approaches have applications to fungi other than those in the genus *Fusarium*. This volume presents an introduction to the genus *Fusarium*, the toxins these fungi produce and the diseases they can cause. "The *Fusarium* Laboratory Manual is a milestone in the study of the genus *Fusarium* and will help bridge the gap between morphological and phylogenetic taxonomy. It will be used by everybody dealing with *Fusarium* in the Third Millennium." -- W.F.O. Marasas, Medical Research Council, South Africa

Lab Manual for Zumdahl/Zumdahl's Chemistry, 9th Jul 21 2020 Build skill and confidence in the lab with the 61 experiments included in this manual. Safety is strongly emphasized throughout the lab manual. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Lab Manual Biology Class 11 Jan 27 2021 Lab Manual

The Complete Lab Manual for Electricity May 31 2021 Now today's readers can master the hands-on electrical skills needed for professional success with **THE COMPLETE LABORATORY MANUAL FOR ELECTRICITY, 4E** by best-selling author Stephen Herman. No matter what electrical theory book readers are using, **THE COMPLETE LABORATORY MANUAL FOR ELECTRICITY** offers the perfect fit with a logical progression of topics and meaningful, cost-effective experiments. Updated lab activities throughout this edition now incorporate the use of wirewound resistors rather than incandescent lamps. Learners explore all aspects of electrical concepts -- from basic electricity through AC theory, transformers, and motor controls. Each lab offers a clear explanation of the circuits to be connected, examples of the calculations to complete the exercise, and step-by-step procedures for conducting the experiment. Trust **THE COMPLETE LABORATORY MANUAL FOR ELECTRICITY, 4E** as a stand-alone resource or ideal supplement (e.g., to the Delmar Standard Textbook of Electricity) for the mastery of hands-on electrical skills today's readers need. Important Notice: Media

content referenced within the product description or the product text may not be available in the ebook version.

Lab Manual Biology Hard Bound Class 11 Nov 24 2020 Lab Manual

The Grammar Lab Aug 14 2022 A lively, humorous and richly illustrated grammar series for children aged nine to twelve.

Lab Manual Latest Edition May 11 2022 Lab. E- Manual Physics (For XIIth Practicals) A. Every student will perform 10 experiments (5 from each section) & 8 activities (4 from each section) during the academic year. Two demonstration experiments must be performed by the teacher with participation of students. The students will maintain a record of these demonstration experiments. B. Evaluation Scheme for Practical Examination : One experiment from any one section 8 Marks Two activities (one from each section) (4 + 4) 8 Marks Practical record (experiments & activities) 6 Marks Record of demonstration experiments & Viva based on these experiments 3 Marks Viva on experiments & activities 5 Marks Total 30 Marks Section A Experiments 1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current. 2. To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material. 3. To verify the laws of combination (series/parallel) of resistances using a metre bridge. 4. To compare the emf of two given primary cells using potentiometer. 5. To determine the internal resistance of given primary cells using potentiometer. 6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 7. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter and voltmeter of desired range and to verify the same. 8. To find the frequency of the a.c. mains with a sonometer. Activities 1. To measure the resistance and impedance of an inductor with or without iron core. 2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. 3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 4. To assemble the components of a given electrical circuit. 5. To study the variation in potential drop with length of a wire for a steady current. 6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram. Section B Experiments 1. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 2. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 3. To find the focal length of a convex mirror, using a convex lens. 4. To find the focal length of a concave mirror, using a convex lens. 5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope. 7. To find refractive index of a liquid by using (i)

concave mirror, (ii) convex lens and plane mirror. 8. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias. 9. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. 10. To study the characteristics of a common-emitter npn or pnp transistor and to find out the values of current and voltage gains. Activities 1. To study effect of intensity of light (by varying distance of the source) on a L.D.R. 2. To identify a diode, a LED, a transistor and IC, a resistor and a capacitor from mixed collection of such items. 3. Use of multimeter to (i) identify base of transistor. (ii) distinguish between npn and pnp type transistors. (iii) see the unidirectional flow of current in case of a diode and a LED. (iv) check whether a given electronic component (e.g. diode, transistor or IC) is in working order. 4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 5. To observe polarization of light using two Polaroids. 6. To observe diffraction of light due to a thin slit. 7. To study the nature and size of the image formed by (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror). 8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses. Suggested Investigatory Projects 1. To investigate whether the energy of a simple pendulum is conserved. 2. To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum. 3. To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration. 4. To compare effectiveness of different materials as insulators of heat. 5. To determine the wavelengths of laser beam by diffraction. 6. To study various factors on which the internal resistance/emf of a cell depends. 7. To construct a time-switch and study dependence of its time constant on various factors. 8. To study infrared radiations emitted by different sources using photo-transistor. 9. To compare effectiveness of different materials as absorbers of sound. 10. To design an automatic traffic signal system using suitable combination of logic gates. 11. To study luminosity of various electric lamps of different powers and make. 12. To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve. 13. To study collision of two balls in two dimensions. 14. To study frequency response of : (i) a resistor, an inductor and a capacitor, (ii) RL circuit, (iii) RC circuit, (iv) LCR series circuit.