

Plant Structure And Function Concept Mapping

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Principles of Plant Genetics and Breeding George Acquaah 2020-09-28 The revised edition of the bestselling textbook, covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders, marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices. Substantial updates have been made to its molecular genetics and breeding sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding, genome editing, and others. A new table enables efficient comparison of an expanded list of molecular markers, including Allozyme, RFLPs, RAPD, SSR, ISSR, DAMD, AFLP, SNPs and ESTs. Also, new and updated “Industry Highlights” sections provide examples of the practical application of plant breeding methods to real-world problems. This new edition: Organizes topics to reflect the stages of an actual breeding project

Incorporates the most recent technologies in the field, such as CRISPR genome edition and grafting on GM stock Includes numerous illustrations and end-of-chapter self-assessment questions, key references, suggested readings, and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science, particularly those studying plant breeding, biotechnology, and genetics.

NTA NEET 40 Days Crash Course in Biology with 41 Online Test Series 3rd Edition Disha Experts

2018-12-17 This book contains an Access Code in the starting pages to access the 41 Online Tests. NTA NEET 40 Days Crash Course in Biology is the thoroughly revised, updated & redesigned study material developed for quick revision and practice of the complete syllabus of the NEET exams in a short span of 40 days. The book can prove to be the ideal material for class 12 students as they can utilise this book to revise their preparation immediately after the board exams. The book contains 38 chapters of class 11 & 12 and each Chapter contains: # NEET 5 Years at a Glance i.e., Past 5 years QUESTIONS of 2018-2014 with TOPIC-WISE Analysis. # Detailed Mind-Maps covers entire JEE Syllabus for speedy revision. # IMPORTANT/ CRITICAL Points of the Chapter for last minute revision. # TIPS to PROBLEM SOLVING – to help students to solve Problems in shortest possible time. # Exercise 1 CONCEPT BUILDER- A Collection of Important Topic-wise MCQs to Build Your Concepts. # Exercise 2 CONCEPT APPLICATOR – A Collection of Quality MCQs that helps sharpens your concept application ability. # Answer Keys & Detailed Solutions of all the Exercises and Past years problems are provided at the end of the chapter. # ONLINE CHAPTER TESTS – 38 Tests of 15 Questions for each chapter to check your command over the chapter. # 3 ONLINE (Full Syllabus) MOCK TESTS - To get familiar with exam pattern and complete analysis of your Performance.

29 AIIMS Biology Chapter-wise Solved Papers (1997-2019) with Revision Tips & 3 Online Mock Tests - 2nd Edition Disha Experts 2019-07-19

Prentice Hall Exploring Life Science 1997

Vascular Plants Carim Raymond Ali Calkins 1997

Advances in Cognition, Education, and Deafness David S. Martin 2004-04 Contributions to the Second International Symposium on Cognition, Education, and Deafness (July 1989, Gallaudet University) address issues in the areas of cognitive assessment, development, intervention programs, and cognitive processes, as well as language and cognition and neuroscience. A number of applied research programs are described. Annotation copyrighted by Book News, Inc., Portland, OR

Plant Structure: Function and Development John A. Romberger 1993-05-03 This book is about the developmental anatomy of large, complex plants, particularly of the woody plants that grow and survive for decades or centuries. It is focused on the meaning of that anatomy, that integrated structure, as a determinant of effective function. A pervading theme is that the plant structures that have survived "selection" processes during the eons of organismal evolution, within the larger context of geo logic and climatic evolution, are well attuned to biochemical and biophysical principles that determine and define efficient function. The sets of structure-and-function couples existing in the various plant taxa differ so widely that generalities are often difficult to discern. This diversity is due partly to the broad range of ecological conditions to which higher plant organisms have become adapted under stresses imposed by competition and continual climatic change. It is also due to the tendency of different taxa, with their different complements of inherited information, to respond to similar situations in different ways. Cognizant of this reality, we have tried throughout the book to avoid generalizing too broadly on the basis of data from the relatively small fraction of plant species that have as yet been studied. This book is intended for those who have already studied the anatomy and development of plants. It is addressed to advanced students, teachers, and researchers in the interrelated fields of botany, forestry, horticulture, and agronomy, and to others having professional interests in the culture of woody plants and the stewardship of ecosystems.

Cells Anthea Maton 1997-06

Traits and Fates Education Development Center 1997-07

CELL STRUCTURE AND FUNCTIONS Narayan Changder 6000+ MCQ (Multiple Choice Questions and answers) in CELL STRUCTURE AND FUNCTIONS E-Book for fun, quizzes, and examinations. It contains only questions answers on the given topic. Each questions have an answer key at the end of the page. One can use it as a study guide, knowledge test book, quizbook, trivia...etc. This pdf is useful for you if you are looking for the following: (1)NOTES OF CELL STRUCTURE AND FUNCTION CLASS 8 (2)CELL STRUCTURE AND FUNCTION CLASS 8 EXTRA NOTES (3)CELL STRUCTURE AND FUNCTION CLASS 8 NCERT NOTES PDF (4)CELL STRUCTURE AND FUNCTION QUESTIONS AND ANSWERS (5)CELL STRUCTURE AND FUNCTION PDF DOWNLOAD (6)CELL STRUCTURE AND FUNCTION CLASS 8 NOTES (7)CELL STRUCTURE AND FUNCTION PDF CLASS 11 (8)CELL STRUCTURE AND FUNCTION CLASS 8 QUESTION ANSWER (9)CELL STRUCTURE AND FUNCTION PDF CLASS 9 (10)QUESTION BANK ON CELL STRUCTURE AND FUNCTION (11)PLANT CELL STRUCTURE AND FUNCTION PDF (12)CELL STRUCTURE AND FUNCTION CLASS 8 NCERT PDF (13)CELL STRUCTURE AND FUNCTION NOTES PDF (14)CELL STRUCTURE AND FUNCTION PPT (15)ANIMAL CELL STRUCTURE AND FUNCTION PDF (16)CELL-STRUCTURE AND FUNCTION CLASS 8 QUESTIONS AND ANSWERS PDF

Insights in Biology Education Development Center 1997-04

ICOME 2021 Eka Putra Ramdhani 2022-01-07 This book is the proceeding of the International Conference on Maritime Education (ICOME 2021) that was successfully held on 3-5 November 2021 using an online platform. The conference was mainly organized by The Faculty of Teacher Training and Education Universitas Maritim Raja Ali Haji (FKIP UMRAH). This conference aims to provide a forum for scholars, professionals, and academics to share their fruitful insights on current issues in education. Each participant will get an opportunity to expand their networks and collaborate at the ICOME 2021. The conference's theme is "The Reinforcement of Educational System, Values, and Characters in Maritime Education". The number of participants who joined the zoom room was recorded at 296 participants and 30 participants attended the conference directly at the Aston Hotel, Tanjungpinang, Indonesia. The 27 full papers presented were carefully reviewed and selected from 41 submissions. The papers reflect the conference sessions as follows: teaching methods and approaches, testing and evaluation, educational

management and policy, designing syllabus and production of teaching materials, teacher training and professional development, digital literacy and technology usage for education, challenges and barriers in coastal education, character education in maritime context, curriculum development for maritime context, international, cross-national and domestic forces in the shaping of educational ideologies, educational systems, and patterns of teaching and learning.

STEM: Life Science

IB Biology Revision Workbook Roxanne Russo 2019-10-31 Based on the 2014 DP Biology course, the 'IB Biology Revision Workbook' is intended for use by students at any stage of the two-year course. The workbook includes a wide variety of revision tasks covering topics of the Standard Level Core, Additional Higher Level and each of the four Options. The tasks include skills and applications taken directly from the guide, as well as activities aimed at consolidating learning. A section on examination preparation and other useful tools is a part of this workbook.

Excel Senior High School Information and Research Skills for Assessment Success Ian Biddle 2000

Contains articles by different authors including Ian Biddle, Chris Greef, Maree Herrett, Debra Kelliher, Rodney Lane, Marshall Leaver, Robert Mulas, Sophie Mynott, Cameron Paterson, and Ross Todd.

Applies the Information Skills Process to the preparation of assessment tasks for the Biology, Business Studies, English, Geography, Modern History and Society and Culture HSC 2001 Syllabi.

Student Study Guide to Accompany Botany, Second Edition, Moore, Clark, Vodopich Rebecca McBride

DiLiddo 1998

Modern Biology Albert Towle 1991

Fundamentals of Anatomy and Physiology Donald C Rizzo 2015-02-27 Packed with vivid illustrations, best-selling FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY, 4E is written specifically for learners in a one-semester introductory A&P course in the allied health field who have little or no previous knowledge

of anatomy and physiology. Known for its clear approach to teaching, the text is widely praised for its ability to break A&P down into very simple, easy to understand language. Content is organized according to body systems and focuses on the body working together to promote homeostasis. Improving both the quality and quantity of text illustrations, the Fourth Edition's new art program brings text concepts to life with new figures throughout. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Hydrothermal Technology in Biomass Utilization & Conversion David Chiaramonti 2020-04-30 This book addresses a key innovative technology for decarbonization of the energy system: hydrothermal processing. It basically consists of treating biomass and wastes in a wet form, under pressure and temperature condition. This approach is becoming more and more attractive, as new feedstock and applications are appearing on the scene of bioeconomy and bioenergy. The hydrothermal processing of various type of biomass, waste, and residues, thus, raised the interest of many researchers and companies around the world, together with downstream upgrading processes and technologies: solid products as biochar, for instance, or liquid ones as crude bioliquids, are finding new market opportunities in circular economy schemes. The Special Issue collects recent innovative research works in the field, from basic to applied research, as well as pilot industrial applications/demo. It is a valuable set of references for those investing time and effort in research in the field.

Elementary Science Methods: A Constructivist Approach David Jerner Martin 2012-12-20 The text that pioneered a constructivist approach to elementary science teaching is based on two fundamental and complementary ideas: that it's more important for children to learn how to do science than to learn about science, and that elementary science teachers needing to know a great deal of science, but rather should be co-inquirers with their students. **ELEMENTARY SCIENCE METHODS: A CONSTRUCTIVIST APPROACH**, Sixth Edition, features a wealth of exercises, including open-ended inquiry activities that help teacher candidates construct their own conceptualizations about science content and teaching methods. More than 170 process-oriented, open-ended activities, organized by grade level, can be used to encourage children to develop and perform their own investigations. All activities and much of the text content are clearly linked to National Science Education Standards (NSES) for content, professional

development, assessment, and teaching. Also included are suggestions for appropriate children's literature to encourage interdisciplinary learning. The book's website, Education CourseMate, provides valuable tools and resources such as additional activities and video clips that students can use both in their college course and later in elementary science classrooms. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Basic Concepts of Plant Science S.K. Bangarwa 2017-12-01 Basic Concepts of Plant Science covers all the important chapters of Genetics and Plant Breeding, Plant Pathology, Microbiology, Seed Science and Technology, IPR, Statistics and Agriculture Biotechnology. Tables provide information about history of all the subjects of plant science. In order to have better understanding of the topic figures have been incorporated (wherever required). Statistics and Biotechnology have been discussed in detail. The chapters are arranged in the order of increasing technical complexity. The book contains about 100 fill in the blanks, 500 MCQs and memory based questions (from previous years ICAR examinations with their answers), hence it is a complete book on Plant Science.

Plant Biomechanics Anja Geitmann 2018-06-09 This book provides important insights into the operating principles of plants by highlighting the relationship between structure and function. It describes the quantitative determination of structural and mechanical parameters, such as the material properties of a tissue, in correlation with specific features, such as the ability of the tissue to conduct water or withstand bending forces, which will allow advanced analysis in plant biomechanics. This knowledge enables researchers to understand the developmental changes that occur in plant organs over their life span and under the influence of environmental factors. The authors provide an overview of the state of the art of plant structure and function and how they relate to the mechanical behavior of the organism, such as the ability of plants to grow against the gravity vector or to withstand the forces of wind. They also show the sophisticated strategies employed by plants to effect organ movement and morphogenesis in the absence of muscles or cellular migration. As such, this book not only appeals to scientists currently working in plant sciences and biophysics, but also inspires future generations to pursue their own research in this area.

Life's Structure and Function Glencoe/McGraw-Hill 2001-05

Innovating with Concept Mapping Alberto Cañas 2016-08-20 This book constitutes the refereed proceedings of the 7th International Conference on Concept Mapping, CMC 2016, held in Tallinn, Estonia, in September 2016. The 25 revised full papers presented were carefully reviewed and selected from 135 submissions. The papers address issues such as facilitation of learning; eliciting, capturing, archiving, and using “expert” knowledge; planning instruction; assessment of “deep” understandings; research planning; collaborative knowledge modeling; creation of “knowledge portfolios”; curriculum design; eLearning, and administrative and strategic planning and monitoring.

Teaching the Structure and Function of Plants to Seventh Grade Students Jodie Lynn Fisher 1996

Understanding Learning Styles Kelli Allen 2010 Enhanced by surveys, practical ideas, and suggestions for designing lessons, offers teachers help in determining the learning style of each student and the appropriate delivery methods to best teach their students and address as many of their intelligences as possible.

University Botany li : (Gymnosperms, Plant Anatomy, Genetics, Ecology) S M Reddy, S J Chary 2003

This Book Is Written Strictly In Accordance With The Revised Common Core Syllabus Recommended By Andhra Pradesh State Council Of Higher Education. It Also Caters The Needs Of Undergraduate Students Of Other Indian Universities. This Book Covers Gymnosperms, Plant Anatomy, Genetics And Ecology. Recent Developments In The Subject Matter Have Been Incorporated In The Book. The Book Has A Systematic Presentation. Important Questions And Their Solutions Are Given At The End Of Each Chapter. Every Care Has Been Taken To Present The Subject In A Simple And Lucid Language. The Book Is Profusely Illustrated. This Book Is Written Strictly In Accordance With The Revised Common Core Syllabus Recommended By Andhra Pradesh State Council Of Higher Education. It Also Caters The Needs Of Undergraduate Students Of Other Indian Universities. This Book Covers Gymnosperms, Plant Anatomy, Genetics And Ecology. Recent Developments In The Subject Matter Have Been Incorporated In The Book. The Book Has A Systematic Presentation. Important Questions And Their Solutions Are Given At The End Of Each Chapter. Every Care Has Been Taken To Present The Subject In A Simple And Lucid Language. The Book Is Profusely Illustrated. This Book Is Written Strictly In Accordance With The

Revised Common Core Syllabus Recommended By Andhra Pradesh State Council Of Higher Education. It Also Caters The Needs Of Undergraduate Students Of Other Indian Universities. This Book Covers Gymnosperms, Plant Anatomy, Genetics And Ecology. Recent Developments In The Subject Matter Have Been Incorporated In The Book. The Book Has A Systematic Presentation. Important Questions And Their Solutions Are Given At The End Of Each Chapter. Every Care Has Been Taken To Present The Subject In A Simple And Lucid Language. The Book Is Profusely Illustrated. This Book Is Written Strictly In Accordance With The Revised Common Core Syllabus Recommended By Andhra Pradesh State Council Of Higher Education. It Also Caters The Needs Of Undergraduate Students Of Other Indian Universities. This Book Covers Gymnosperms, Plant Anatomy, Genetics And Ecology. Recent Developments In The Subject Matter Have Been Incorporated In The Book. The Book Has A Systematic Presentation. Important Questions And Their Solutions Are Given At The End Of Each Chapter. Every Care Has Been Taken To Present The Subject In A Simple And Lucid Language. The Book Is Profusely Illustrated.

Interaction theory in forest ecology and management Rolfe A. Leary 2012-12-06 As I understand it, a book Preface is where the author explains to the reader how the book in hand came about, something of the personal reasons for having inflicted such extended duress on one's self to complete the manuscript, and other items that are fit to say but do not fit in the text. This book had its conceptual beginnings in the 1970's with my 'studies in scientific synthesis at the North Central Forest Experiment Station, St. Paul, Minnesota. Ours is, clearly, the age of analysis. But, I felt, we must soon begin frameworks for synthesis, or a synthesis would never be possible. In short, I hoped to develop 'interaction' as an integrative principle in forestry. As work progressed on the manuscript, other subthemes developed. First, there was the vague feeling on my part that the forestry profession was losing ground in the contest to see who should manage the forests of the world. This was happening not because foresters do not know how to manage forests in a reasonable manner, but because the public seemed to be losing faith in the judgement of foresters as professional, responsible, wise land managers. Several well-known incidents of poor judgement in timber harvesting methods on national forests in the United States did little to help the forester's image.

Differentiation for Real Classrooms Kathleen Kryza 2009-11-13 With illustrations, vignettes, sample lessons, and adaptations for ESL and students with special needs, this book offers dozens of practical strategies for differentiating lessons to reach all learners.

Proceedings of the Fifteenth Annual Conference of the Cognitive Science Society Cognitive Science Society 1993 This volume features the complete text of all regular papers, posters, and summaries of symposia presented at the 15th annual meeting of the Cognitive Science Society.

Integrating the Visual Arts Across the Curriculum Julia Marshall 2019-08-30 With lots of examples and color images, this resource is both a foundational text and a practical guidebook for bringing contemporary art into elementary and middle school classrooms as a way to make learning joyful and meaningful for all learners. Marshall shows how asking questions and posing problems spark curiosity and encourage learners to think deeply and make meaningful connections across the curriculum. At the center of this approach is creativity, with contemporary visual art as its inspiration. The text covers methods of creative inquiry-based learning, art and how it connects to the “big ideas” addressed by academic domains, flexible structures teachers can use for curriculum development, creative teaching strategies using contemporary art, and models of art-based inquiry curriculum. Book Features: Provides research-based project ideas and curriculum models for arts integration. Shows how Project Zero’s flexible structures and frameworks can be used to develop creative inquiry and an arts integration curriculum. Explains how contemporary visual art connects to the four major disciplines—science, mathematics, social studies, and language arts. Includes full-color images of contemporary art that are appropriate for elementary and middle school learners. Demonstrates how arts integration can and should be substantive, multidimensional, and creative.

Chapter Resource 23 Introduction to Plants Biology Holt Rinehart & Winston 2004

The Use of Concept Mapping as a Possible Strategy for Instructional Design and Evaluation in College Genetics Christopher Arthur Bogden 1977

The Parallel Curriculum Carol Ann Tomlinson 2008-10-22 Engage students with a rich curriculum that strengthens their capacity as learners and thinkers! Every learner is somewhere on a path toward expertise in a content area. This resource promotes a model for developing high-quality curriculum that moves learners along the continuum toward expertise and provides sample units and rubrics to help implement differentiated curriculum. Teachers can use four curriculum parallels that incorporate Ascending Intellectual Demand to: Determine current student performance levels Appropriately challenge all students in each subject area Extend the abilities of students who perform at advanced levels Provide learning activities that elevate analytical, critical, and creative thinking

The Science Teacher's Toolbox Tara C. Dale 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative, research-based resource providing teachers with instructional strategies for students of all levels and abilities. Each book in the collection focuses on a specific content area. Clear, concise guidance enables teachers to quickly integrate low-prep, high-value lessons and strategies in their middle school and high school classrooms. Every strategy follows a practical, how-to format established by the series editors. The Science Teacher's Toolbox is a classroom-tested resource offering hundreds of accessible, student-friendly lessons and strategies that can be implemented in a variety of educational settings. Concise chapters fully explain the research basis, necessary technology, Next Generation Science Standards correlation, and implementation of each lesson and strategy. Favoring a hands-on approach, this book provides step-by-step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately. Lessons cover topics such as setting up labs, conducting experiments, using graphs, analyzing data, writing lab reports, incorporating technology, assessing student learning, teaching all-ability students, and much more. This book enables science teachers to: Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators, *The Science Teacher's Toolbox: Hundreds of Practical Ideas to Support Your Students* is an invaluable aid for upper elementary, middle school, and high school science educators as well those in teacher education programs and staff development professionals.

Integration of Technology into the Classroom D Lamont Johnson 2001-02-15 First published in 2001.

Routledge is an imprint of Taylor & Francis, an informa company.

Vegetation Structure and Function at Multiple Spatial, Temporal and Conceptual Scales Elgene Owen Box 2016-03-17 This commemorative volume of invited papers in vegetation science covers a full range of topics, objectives, methods and applications, including conservation and management tasks. These require study at different temporal and spatial scales, often simultaneously. Methodology is important in science, since it responds to particular questions and raises others. It is also closely related to the scale of investigation. Chapters in this book illustrate this interdependence, even in basic tasks such as vegetation sampling and description, measurements and mapping. Individual chapters present globally applicable systems, regional syntheses and local analyses and applications, plus conceptual methodologies, including currently debated hot topics. Vegetation types treated include tropical rainforests, temperate forests, dry steppes and scrub and local turf, sedge and moss communities. There are also chapters on re-vegetation, woodlot management, ecology of an invasive species, and trajectory planning in conservation. This book will be useful to both students and practitioners, for its reviews and examples and as a potential textbook suitable for graduate-level courses and seminars.

Plant Anatomy Richard Crang 2018-11-30 Intended as a text for upper-division undergraduates, graduate students and as a potential reference, this broad-scoped resource is extensive in its educational appeal by providing a new concept-based organization with end-of-chapter literature references, self-quizzes, and illustration interpretation. The concept-based, pedagogical approach, in contrast to the classic discipline-based approach, was specifically chosen to make the teaching and learning of plant anatomy more accessible for students. In addition, for instructors whose backgrounds may not primarily be plant anatomy, the features noted above are designed to provide sufficient reference material for organization and class presentation. This text is unique in the extensive use of over 1150 high-resolution color micrographs, color diagrams and scanning electron micrographs. Another feature is frequent side-boxes that highlight the relationship of plant anatomy to specialized investigations in plant molecular biology, classical investigations, functional activities, and research in forestry, environmental studies and genetics, as well as other fields. Each of the 19 richly-illustrated chapters has an abstract, a list of keywords, an

introduction, a text body consisting of 10 to 20 concept-based sections, and a list of references and additional readings. At the end of each chapter, the instructor and student will find a section-by-section concept review, concept connections, concept assessment (10 multiple-choice questions), and concept applications. Answers to the assessment material are found in an appendix. An index and a glossary with over 700 defined terms complete the volume.

25 AIIMS Biology Chapter-wise Solved Papers (1997–2018) with Revision Tips & 3 Online Mock Tests
Disha Experts Chapter-wise 25 Biology Solved Papers AIIMS (1997-2018) with Revision Tips & 3 Online Tests consists of 25 Papers - 4 papers of 2018 Online AIIMS with 21 Solved Papers from 1997-2017 distributed into 38 Chapters. The book also provides Quick Revision Tips & Techniques useful to revise the syllabus before the exam. 3 Online Tests of Biology are also provided with this book. These tests can be accessed through a voucher code. The book contains around 1500 MCQs - 1000 Simple MCQs and 500 Assertion-Reason type MCQs.

Evaluation of Concept Mapping as a Tool for Meaningful Education of College Biology Students Jane Ann Heinze-Fry 1987