

Laboratory Activity #1 — Student Laboratory Packet

Relationships and Biodiversity*A Laboratory Activity for the Living Environment***Introduction**

Botana curus is a valuable plant because it produces Curol, a compound used for treating certain kinds of cancer. Curol cannot be produced in the laboratory. *Botana curus* grows very slowly and is on the endangered species list, so its ability to provide Curol in large quantities is limited.

Species that are more closely related to *Botana curus* are more likely to produce the important substance Curol. Three similar plant species that are plentiful (X, Y, and Z) may be related to *Botana curus*. You will work as a researcher to:

- gather structural and molecular evidence to determine which plant species is most closely related to the hypothetical species, *Botana curus*
- use this evidence to decide which plant species is most likely to serve as a source of the important substance Curol

Safety

- You will need to wear goggles while conducting Tests 4 and 5.
- Do not eat or drink anything in the laboratory while doing this laboratory activity.

Important Note: Record all of your data and answers on these laboratory sheets. You will need to keep them for review before the Regents Examination. Later, you will need to transfer your answers to a separate Student Answer Packet. Your teacher will use the packet in grading your work, and the school will retain it as evidence of your completion of the laboratory requirement for the Living Environment Regents Examination.

Structural Evidence for Relationships

Perform the following tests and record your observations in Table 1 on page 8 of this packet. Use a hand lens or microscope as needed.

Test 1-Structural Characteristics of Plants

- Do not remove the plant samples from the plastic bags/cards.
- Compare the structural characteristics of the plant samples. Record your observations in Table 1 (see page 8).

Test 2-Structural Characteristics of Seeds

- Do not remove the seed samples from the plastic bags/cards.
- Compare the structural characteristics of the seed samples. Record your observations in Table 1.



"Relationships and Biodiversity" is a laboratory activity produced by the State Education Department for use in fulfilling part of the laboratory requirement for the Regents Examination in Living Environment. Reproducing any part of this laboratory activity by other than New York State school personnel is illegal.
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Nys Regent Relationships And Biodiversity Lab

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Regents Exams and Answers: Living Environment, Fourth Edition Gregory Scott Hunter, 2024-01-02 Be prepared for exam day with Barron's Trusted content from experts Barron's Regents Exams and Answers Living Environment provides essential review for students taking the Living Environment Regents and includes actual exams administered for the course thorough answer explanations and overview of the exam This edition features Four actual Regents exams to help students get familiar with the test format Review questions grouped by topic to help refresh skills learned in class Thorough answer explanations for all questions Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies Regents Exams and Answers: Living Environment Revised Edition Gregory Scott Hunter, 2021-01-05 Always study with the most up to date prep Look for Regents Exams and Answers Living Environment Fourth Edition ISBN 9781506291338 on sale January 2 2024 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product *Reviewing the Living Environment Biology* Rick Hallman, Woody, 2004-04-19 This review book provides a complete review of a one year biology course that meets the NYS Living Environment Core Curriculum Includes four recent Regents exams **Let's Review Regents: Living Environment Revised Edition** Barron's Educational Series, Gregory Scott Hunter, 2021-01-05 Barron's Let's Review Regents Living Environment gives students the step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Biology topics prescribed by the New York State Board of Regents This edition includes One recent Regents exam and question set with explanations of answers and wrong choices Teachers guidelines for developing New York State standards based learning units Two comprehensive study units that cover the following material Unit One explains the process of scientific inquiry including the understanding of natural phenomena and laboratory testing in biology Unit Two focuses on specific biological concepts including cell function and structure the chemistry of living organisms genetic continuity the interdependence of living things the human impact on ecosystems and several other pertinent topics **Resources in Education**, 2001 **Let's Review Biology-The Living Environment** G. Scott Hunter, 2004-01-01 This high school classroom supplement to the main biology text prepares students in New York State to succeed on the Regents Exam It presents a subject review practice questions with answers and two complete Regents Biology Exam with answer keys When combined with Barron's Regents Exams and Answers Biology it provides students with the most comprehensive test preparation available anywhere Topics reviewed include ecology biological organization formation and structure of the ecosystem and the interaction between human beings and the biosphere **Growing a Life** Illéne Pevec, 2016-09-27 Growing a Life demonstrates just how influential school and community gardening programs can be for adolescents Readers follow author Illéne Pevec as she travels from rural Colorado to inner New York City and from agrarian New Mexico to urban Oakland California to study remarkable youth gardening

programs for at risk teens Expressive candid interviews with more than eighty students substantiated by relevant neuroscience research and a framework of positive psychology explain the life altering physical and emotional benefits of gardening As students share their experiences tending the soil and the plants feeding their families and their communities and guiding younger children readers are given the opportunity to examine the largely unexplored topic of mentored urban gardening Growing a Life will inspire educators community leaders and youth to team up and establish community gardens where they do not already exist and to involve youth in existing gardens **Resources in Education** ,1982 *School*

,1924 **The Ecology of the New Economy** Jacob Park,Nigel Roome,2017-09-08 A revolution is taking place in the development of global information and communications technologies In slightly more than a decade the World Wide Web has gone from the idea of an obscure English scientist to a consumer oriented technology system with an expected one billion users by 2005 The technologies that enable this to happen are advancing rapidly which is leading to both an unprecedented number of start up companies and a host of innovative new alliances between companies The growth has been so rapid and unexpected that little research and analysis has yet been done on what impact this transformation has had or will have on the ability of companies to meet the global sustainability challenge As environmental strategy has traditionally been portrayed in terms of risk cutting and resource efficiency there is a danger that critical business issues such as information technology R D and e commerce development are examined in isolation from the wider sustainable business perspective An important objective of the book is to explore document and raise awareness of sustainability concerns arising from the emerging global information economy The information economy is defined in the broadest sense possible including software hardware telecommunication traditional and wireless and advanced communication technologies Some of the key issues and questions that are examined include Case studies on how and to what degree sustainability concerns are being integrated into the business model of electronic telecommunication and dot com firms The relationship between the diffusion of information and communication technologies and the energy and resource intensity of companies The role of information and communication technologies in the shaping of policies for sustainability its impacts on sustainable or unsustainable lifestyles and its implications for the interaction between companies and other actors Corporations and the global digital divide The Ecology of the New Economy will be of interest to academics governments businesses and non governmental groups who are trying to understand the linkages and relationship between the two of our greatest global challenges the information revolution and environmental sustainability Creating Strategic Partnerships Marilyn J. Amey,Pamela L. Eddy,2023-07-03 What are the characteristics and conditions that lead to successful educational partnerships What can we learn from partnerships that fail cannot be sustained over time or cease to benefit their partners This book serves as a guide to the successful implementation of partnerships It provides the context and tools for readers who are responding to the increasing demands of policy makers funders and institutional leaders to use partnerships to address local state and federal issues achieve external mandates

meet public or internal agendas or pursue international collaborations This guide provides an evidence based framework for institutional and organizational leaders to develop the vision shared values and norms to achieve the partnership capital that will sustain an enduring relationship It offers a three phase model of the development process of collaboration together with a tool box for those charged with partnering and leading organizational change and includes a template for both creating new partnerships and sustaining existing ones The authors start by differentiating between traditional often ad hoc partnerships and strategic partnerships that align organizational strategy with partnership actions and by identifying the importance of moving beyond incremental or surface first order change to develop deep second order change through which underlying structures and operations are questioned and new processes emerge due to the partnership They offer analyses and understandings of seven key components for success exploring motivations developing partner relationships communicating and framing purpose creating collaborative structures and resources leading various partnership stages generating partnership capital and implementing strategies for sustaining partnerships Each chapter concludes with a case study to provide more understanding of the ideas presented and for use in training or classes This guide is addressed to policy makers and educational leaders college administrators and their non profit and business partners to enable them to lead and create strategic partnerships and facilitate organizational change

Chemical & Metallurgical Engineering
Eugene Franz Roeber, Howard Coon Parmelee, 1919 **Sustainable Agriculture Reviews** Eric Lichtfouse, 2013-02-12

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children Sustainable agriculture is a discipline that addresses current issues such as climate change increasing food and fuel prices poor nation starvation rich nation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion Novel solutions are proposed based on integrated knowledge from sciences as diverse as agronomy soil science molecular biology chemistry toxicology ecology economy philosophy and social sciences Because actual society issues are now intertwined global and fast developing sustainable agriculture will bring solutions to build a safer world This book series gathers review articles that analyze current agricultural issues and knowledge then propose alternative solutions It will therefore help all scientists decision makers professors farmers and politicians who wish to build a safe agriculture energy and food system for future generations

Zoological Studies, 2005 Electrochemical and Metallurgical Industry
Eugene Franz Roeber, Howard Coon Parmelee, 1919 *Attracting Students to Science*, 1992 Teaching Content Reading and Writing Martha Rapp Ruddell, 1993 **Science** John Michels (Journalist), 2008 THE Journal, 1994-08 **Agrindex**, 1995

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