

## 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.



# State Lab Relationships And Biodiversity Answer Key

**Association of Departments of English**

## **State Lab Relationships And Biodiversity Answer Key:**

**E3 Biology Regents Ready Practice 2018 - Living Environment Exam Practice** Effiong Eyo, 2018-01-21 Preparing for the New York State biology Regents Living Environment exam has never been easier more enticing more exciting more engaging more understandable and less overwhelming Our book is written to help students do more know more and build confidence for a higher mark on their Regents exam With questions for five Regents exams including two most recent actual exams this book can be used as a primary Regents question practice resource or as a supplementary resource to other prep books Book Summary Organized engaging doable quick practice quality Regents question sets Clear brief simple and easy to understand correct answer explanations Do more know more and build confidence for a higher mark on your Regents exam Keep track of your day to day progress improvement and readiness for your Regents exam Actual Regents exams included with answers and scoring scales Glossary of must know biology Regents vocabulary terms

*Forensics in Chemistry* Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K s body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI

**Making Thinking Visible** Ron Ritchhart, Mark Church, Karin Morrison, 2011-03-25 A proven program for enhancing students thinking and comprehension abilities Visible Thinking is a research based approach to teaching thinking begun at Harvard s Project Zero that develops students thinking dispositions while at the same time deepening their understanding of the topics they study Rather than a set of fixed lessons Visible Thinking is a varied collection of practices including thinking routines small sets of questions or a short sequence of steps as well as the documentation of student thinking Using this process thinking becomes visible as the students different

viewpoints are expressed documented discussed and reflected upon Helps direct student thinking and structure classroom discussion Can be applied with students at all grade levels and in all content areas Includes easy to implement classroom strategies The book also comes with a DVD of video clips featuring Visible Thinking in practice in different classrooms

Resources in Education ,2000-10      *Reinventing STEM in Early Childhood Education* Eugene Geist,2025-05-09 Teaching STEM to young children is about more than helping them learn their numbers and facts It is an important and complex process that to be effective should honor the way children s brains are developing This book outlines how early childhood educators can best support young children s STEM journeys as children naturally take in information about their environment synthesize it and grow in the process This comprehensive text details different theories of learning research on how young brains develop practical information on preparing your environment and yourself for teaching STEM to children guidance for supporting diverse populations of students and developmental guidelines sample standards resources and lesson plans Organized chronologically the book connects relevant STEM topics with each developmental age range and outlines common school standards for each grade *Reinventing STEM in Early Childhood Education* is meant to be a core text for preservice teachers in math and science methods courses and is also important reading for teacher educators and professional development programs      **ADE Bulletin** Association of Departments of English,1994      *Applied Calculus with Technology* Richard C. Weimer,1998 Understanding that technology can be both a valuable tool and as an active companion in the learning of calculus Weimer has produced a textbook that students those majoring in business management economics and the social life and physical sciences will appreciate for the way it helps guide them into the 21st century Students are introduced to functions and associated preliminary algebraic material and then are presented with basic concepts of differential calculus The organization and careful introduction of material is designed to help even poorly prepared students succeed This text is ideal for professors who wish to integrate DERIVE or the TI 92 graphing calculator into the applied calculus course      **Byte** ,1990-04      *Technology and Society* Linda S. Hjorth,2008 For courses in Science Technology and Society Culture and Society Sociology Ecology Technology and Ethics Technology for the Future Local Global Student Responsibility for the Future Technology and Education New and Emerging Technologies and Implications of Engineering for the Future Unique in its depth breadth and variety of opinions and writings Technology and Society Third Edition is designed to stimulate inspire and provoke awareness of technology s impact on society Spanning eight topical areas its articles are united by a single idea technological change has been a constant companion to changes in society ethics energy the environment population conflict the third world health and even the future Drawing on the contributors diverse backgrounds this anthology explores the complexities of today s toughest technology and society issues and features case studies and exercises that promote critical thinking problem solving and social awareness      **Indianapolis Monthly** ,2003-03 Indianapolis Monthly is the Circle City s essential chronicle and guide an indispensable authority on what s new and what s

news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy s cultural landscape      **Bulletin of the Atomic Scientists** ,1998-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      *Current Index to Journals in Education* ,2001      **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2010      *Abstracts of the ... General Meeting of the American Society for Microbiology* American Society for Microbiology. General Meeting,2006      K-12 Teachers in the Midst of Reform Traci Bliss,Joan Mazur,2002 This casebook provides readers with narratives and actual accounts of teachers dealing with the problematic aspects of everyday teaching An extremely well done variety of case studies at all levels and subjects demonstrates analytic problem solving and a course of action based on well reasoned insights Individuals learning by these examples will be able to help catalyze dynamic learning communities of the 21st century The book s content is consistent with INTASC principles and current reform standards produced by various national organizations All ten extremely well done case studies serve to illuminate the actual changes that teachers undertake to implement proposed improvements For a wide range of educators      **Announcer** American Association of Physics Teachers,1997      **Abstracts of the Annual Meeting** American Anthropological Association,2001      *Forthcoming Books* Rose Arny,1998-06

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