

Laboratory Activity #1 — Student Answer 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

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

Test 2—Structural Characteristics of Seeds

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

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Regents Exams and Answers: Living Environment Revised Edition Barron's Educational Series, Gregory Scott Hunter, 2021-01-05 Barron's Regents Exams and Answers Living Environment provides essential review for students taking the Living Environment Regents including actual exams administered for the course thorough answer explanations and comprehensive review of all topics This edition features Four actual Regents exams to help students get familiar with the test format Comprehensive review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies 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 **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

Prentice Hall Science Explorer: Teacher's ed, 2005 *Biology* Eric Strauss, Marilyn Lisowski, 2000 **American Entomologist**, 1994 **Carolina Science and Math** Carolina Biological Supply Company, 2003 Current Index to Journals in Education, 1999-04 **The Software Encyclopedia 2001**, 2001 **Biology** Neil A. Campbell, 1996 Accompanying CD ROM has interactive exercises a glossary quizzes and a test builder related to the text in the book

Children's Books in Print R R Bowker Publishing, Bowker, 1999-12 *Annual Report* Cornell University. Laboratory of Ornithology, 2008 Forum: Council of Europe Council of Europe, 1992 **Forum**, 1994 **New Scientist**, 2008

Diversity, 1992 **Report of the Annual Meeting of the South African Association for the Advancement of Science**, 2005 **Annual Report** Australian Museum, 2003 *Yearbook of International Organizations 2004/2005* Union of International Associations, 2004 Nature Sir Norman Lockyer, 2004

Unveiling the Magic of Words: A Overview of "**Biodiversity Lab And Student Answer Packet**"

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