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 I 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.
 - 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 Lab Relationships And Biodiversity Answer Sheet

Mike Jess

Nys Lab Relationships And Biodiversity Answer Sheet:

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The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05 **Leading the Sustainable Organization Peter** McAteer, 2025-08-05 Never before have we been presented with the prospect of redesigning business at scale to create a more sustainable future for our planet and the people who inhabit it As we pass the midpoint of the Sustainable Development Goals 2015 2030 the world has changed There is not only more progress and policy but also more disagreement on the way forward The bottom line is that the shared goals developed in 2015 will not be met global warming will likely exceed targets and the collective challenge will be left to a new generation The book is organized as a series of business challenges and key questions that enable a transition from making legacy companies more carbon and waste efficient to operating in fundamentally new ways The vast majority of the new infrastructure the world will need by 2050 still needs to be built Those challenges will not be solved by legacy companies working to protect their market position in the face of a changing world The book offers a chapter by chapter guide to enable new leaders to turn challenges into opportunities The Magazine of Backpacker, 2007-09 Backpacker brings the outdoors straight to the reader's doorstep inspiring and Business ,1927 enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation

has become the gold standard against which all other outdoor industry awards are measured mathew T. Downey, James R. Giese, Fay D. Metcalf, **Environment Reporter**,1993 **Electrical & Electronics Abstracts**,1994 *Principal*,2001 *Abstracts of the Annual Meeting* American Anthropological Association,2001 <u>Electronics</u>,1961-05 June issues 1941 44 and Nov issue 1945 include a buyers guide section <u>Technology and Society</u>

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Unveiling the Magic of Words: A Overview of "Nys Lab Relationships And Biodiversity Answer Sheet"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "Nys Lab Relationships And Biodiversity Answer Sheet," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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