

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.

# Relationships And Biodiversity Lab Report Answers

**LL Leslie**



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100mm depth of surfacing together with a nominal ha live load udl of 17.5 kn/m<sup>2</sup> and knife edge load of 33kn/m the deck  
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e s e c e s 200kn/mm<sup>2</sup> clause 4.3.2.2

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calculations one intermediate diaphragm 10 in thick 50 in deep is assumed at the middle of each span figures 2.1 and 2.2

show an elevation and cross section of the superstructure respectively

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web appendix b design examples b 1 multi span precast concrete girder made continuous with composite deck this is one of the most common types of structures used for freeway bridges and overpasses this three span precast prestressed girder

example features a single long span in the middle along with two short side

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web the design is complete for pre stressing cables end anchorages un tensioned reinforcements end cross girder shear connectors 3 0 general this chapter emphasizes on introducing the typical process of designing deck girder superstructure of pre stressed concrete bridge along with the consideration that a design engineer needs to take

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