

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 Student Lab Packet Answers

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Relationships And Biodiversity Student Lab Packet Answers:

Resources in Education ,2001 **Science Interactions** Robert W. Avakian,1995-07-17 **Inquiry and Problem Solving** ,1999 **Effective Grading** Barbara E. Walvoord,Virginia Johnson Anderson,2011-01-13 The second edition of Effective Grading the book that has become a classic in the field provides a proven hands on guide for evaluating student work and offers an in depth examination of the link between teaching and grading Authors Barbara E Walvoord and Virginia Johnson Anderson explain that grades are not isolated artifacts but part of a process that when integrated with course objectives provides rich information about student learning as well as being a tool for learning itself The authors show how the grading process can be used for broader assessment objectives such as curriculum and institutional assessment This thoroughly revised and updated edition includes a wealth of new material including Expanded integration of the use of technology and online teaching A sample syllabus with goals outcomes and criteria for student work New developments in assessment for grant funded projects Additional information on grading group work portfolios and service learning experiences New strategies for aligning tests and assignments with learning goals Current thought on assessment in departments and general education using classroom work for program assessments and using assessment data systematically to close the loop Material on using the best of classroom assessment to foster institutional assessment New case examples from colleges and universities including community colleges When the first edition of Effective Grading came out it quickly became the go to book on evaluating student learning This second edition especially with its extension into evaluating the learning goals of departments and general education programs will make it even more valuable for everyone working to improve teaching and learning in higher education L Dee Fink author Creating Significant Learning Experiences Informed by encounters with hundreds of faculty in their workshops these two accomplished teachers assessors and faculty developers have created another essential text Current faculty as well as graduate students who aspire to teach in college will carry this edition in a briefcase for quick reference to scores of examples of classroom teaching and assessment techniques and ways to use students classroom work in demonstrating departmental and institutional effectiveness Trudy W Banta author Designing Effective Assessment *Making Connections in Elementary and Middle School Social Studies* Andrew P. Johnson,2009-10-15 Making Connections in Elementary and Middle School Social Studies Second Edition is the best text for teaching primary school teachers how to integrate social studies into other content areas This book is a comprehensive reader friendly text that demonstrates how personal connections can be incorporated into social studies education while meeting the National Council for the Social Studies thematic pedagogical and disciplinary standards Praised for its eoewealth of strategies that go beyond social studies teaching e including classroom strategies pedagogical techniques activities and lesson plan ideas this book examines a variety of methods both novice and experienced teachers alike can use to integrate social studies into other content areas *Orthopaedic Manual Physical Therapy* Christopher H.

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