

Relationships and Biodiversity

A laboratory activity for the Living Environment

Introduction

Potamogeton is a valuable plant because it produces Curc, a compound used for treating certain kinds of cancer. Curc cannot be produced in the laboratory. *Potamogeton* grows very slowly and is on the endangered species list, so its ability to provide Curc in large quantities is limited.

Species that are more closely related to *Potamogeton* are more likely to produce the important substance Curc because their DNA is similar. If you remember, DNA codes the directions for making proteins and curc is a protein. Three similar plant species that are plentiful (X, Y, and Z) may be related to *Potamogeton*. 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 (think it is not real) *Potamogeton*
- use this evidence to decide which plant species is most likely to serve as a source of the important substance Curc

How are we going to figure out which plant is most closely related?

We will use some different tests to complete the task.

- Three different forms of structural evidence.
- An enzyme catalyzed reaction test.
- DNA gel electrophoresis.
- Paper chromatography.
- Molecular evidence.



Relationships And Biodiversity Living Environment Teacher Guide

Robert Vale, Brenda Vale



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Scottish Education T. G. K. Bryce, 2018-06-21 Interrogates the rise of national philosophies and their impact on cosmopolitanism and nationalism

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

The World Today: Teacher's Guide Linda McDowell, Richard Harbeck, 2006-11-24 The World Today Teacher's Guide is a comprehensive resource filled with fun captivating and thought provoking hands on activities In each chapter you will find section and chapter overviews hands on and minds on activities to engage your students in acquiring and applying information vocabulary building exercises note taking guides review activities and assessment ideas and activities fun puzzles engaging word games and other easy to prepare games suggested resources for the teacher and student many useful reproducible masters such as activities maps and graphic organizers The Teacher's Guide also includes four projects for students or groups of students as well as answer keys to the blackline masters Visit www.theworldtoday.ca for additional resources to use with the student textbook

Biodiversity learning kit UNESCO, 2017-05-15

Teachers DO Make a Difference Judith A. Deiro, 2005 Acknowledging that teachers make a difference not only to what students learn about content but what they learn about life this volume offers discussion of topics including setting high expectations for students conveying confidence creating classroom rituals traditions much more

Resources in Education, 2001-04

Living within a Fair Share Ecological Footprint Robert Vale, Brenda Vale, 2013-09-02 According to many authorities the impact of humanity on the earth is already overshooting the earth's capacity to supply humanity's needs This is an unsustainable position This book does not focus on the problem but on the solution by showing what it is like to live within a fair earth share ecological footprint The authors describe numerical methods used to calculate this concentrating on low or no cost behaviour change rather than on potentially expensive technological innovation They show what people need to do now in regions where their current lifestyle means they are living beyond their ecological means such as in Europe North America and Australasia The calculations focus on outcomes rather than on detailed discussion of the methods used The main objective is to show that living with a reduced ecological footprint is both possible and not so very different from the way most people currently live in the west The book clearly demonstrates that change in behaviour now will avoid some very challenging problems in the future The emphasis is on workable practical and sustainable solutions based on quantified research rather than on generalities about overall problems facing humanity

The Dictionary of Maritime Utku Taşova, 2023-11-03 Your Compass to Maritime Mastery As boundless as the oceans the field of maritime studies has charted the course of human civilization for centuries It's an ever evolving realm where the waves of change constantly reshape the contours of knowledge In this expansive sea of understanding having a reliable compass is indispensable The Dictionary of Maritime with its compendium of 4 645 meticulously curated entries aims to be

that navigational aid guiding enthusiasts professionals and scholars alike through the complex waters of maritime terminology Our journey begins at the shores of basic nautical terms ventures through the straits of maritime law navigates the currents of naval architecture and explores the depths of oceanography Each entry within this dictionary is akin to a nautical star guiding readers through the dense fog of maritime jargon towards the clarity of comprehension The Dictionary of Maritime is far more than a mere collection of definitions it s a lighthouse illuminating the path for those sailing the tumultuous seas of maritime studies Whether you are a seasoned mariner a maritime law scholar a naval architect or an oceanography student this dictionary is designed to bridge the gap between the arcane and the understood between obscurity and clarity This book is not merely a passive repository of maritime terms but an active engagement with the rich tapestry of maritime knowledge Each term each phrase is a portal into a vast world that has shaped and continues to shape the course of human history The terms encapsulated within these pages are buoy markers on your journey through the expansive waters of maritime understanding Our endeavor is to foster a shared lexicon a common ground of understanding that can enhance communication collaboration and comprehension across the myriad sectors within the maritime domain By doing so we aspire to contribute to the safety efficiency and evolution of the maritime world As you delve into the pages of The Dictionary of Maritime you are embarking on a voyage of discovery Each term you encounter is a nautical mile on your journey towards a deeper understanding of the world that lies beyond the horizon We invite you to hoist the sails of curiosity and let the winds of knowledge guide you through the enlightening pages of The Dictionary of Maritime May your quest for understanding be as boundless as the oceans and may your exploration through these entries chart a course towards a lifetime of learning in the maritime realm

Gender, Resources and Entitlements Mr. Rohit Manglik,2024-04-14

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Ecosystem Approaches to the Management of Ocean-related Activities United Nations,2011 Healthy ecosystems provide invaluable functions and services that are essential to the marine environment and to human well being Unfortunately some human activities have had an adverse impact on the structure and functioning of marine ecosystems A multitude of stressors such as pollution overfishing coastal development invasive alien species and climate change have impaired the ability of these ecosystems to provide essential goods and services This training manual focuses on the development and implementation of an ecosystem approach to the management of human activities and their impacts on the marine environment An ecosystem approach is essentially an evolution of integrated coastal and ocean management with a greater emphasis on ecosystem goals and objectives and their outcomes

Research Handbook on Ocean Governance Law Simone Borg,Felicity G. Attard,Patricia M. Vella de Fremeaux,2023-01-17 This authoritative Research Handbook offers wide ranging coverage of both traditional and

emerging topics dealing with the regulation of ocean space and highlights the key academic debates around ocean governance It provides a formidable interface between the 1982 UNCLOS Convention and the international law regulating ocean governance while influencing its further evolution through suggestions for future research in the field **Routledge Handbook of International Environmental Law** Shawkat Alam,2013 This handbook is an advanced level reference guide which provides a comprehensive and contemporary overview of the corpus of international environmental law IEL

International Agreements Concerning Living Marine Resources of Interest to NOAA Fisheries ,1999

Environmental Sustainability in Sports, Physical Activity and Education, and Outdoor Life Hans Kristian Hognestad,Bieke Gils,Richard Giulianotti,Tommy Langseth,Holly Thorpe,2022-11-02 **International Handbook of Curriculum Research** William F. Pinar,2003-04-01 The International Handbook of Curriculum Research is the first collection of reports on scholarly developments and school curriculum initiatives worldwide Thirty four essays on 28 nations framed by four introductory chapters provide a panoramic **The Nurse Educator's Guide to Assessing Learning Outcomes**

Mary McDonald,2007 The new edition of this award winning text helps address the increased pressure that the NCLEX and other certification exams are placing on nursing students and faculty The Nurse Educator s Guide to Assessing Learning Outcomes 2nd Edition guides classroom educators through the process of developing effective classroom exams and individual test items **Great Lakes Guide** ,1995 *Biodiversity Integrated Assessment and Computation Tool |*

B-INTACT - Guidelines Food and Agriculture Organization of the United Nations ,2021-02-19 Biodiversity loss is accelerating at an unprecedented rate across the planet putting a great number of species on the brink of extinction A decline in the plants animals and microorganisms threatens food security sustainable development and the supply of vital ecosystem services In order to meet the Sustainable Development Goals SDGs of the 2030 Agenda there is an urgent need to take action to halt biodiversity loss and consequently ecosystem degradation Since the introduction of the Aichi targets released by the Convention on Biological Diversity CBD in 2010 the United Nations have been empowered with greater influence on decision making impacting biodiversity However there was an urgent need for an easy to use tool to rapidly yet effectively assess the impact on biodiversity posed by projects programmes and policies As a timely response the Food and Agriculture Organization of the United Nations FAO has developed the Biodiversity Integrated Assessment and Computation Tool B INTACT B INTACT extends the scope of environmental assessments to capture biodiversity concerns which are not accounted for in conventional carbon pricing The tool is designed for users ranging from national investment banks international financial institutions and policy decision makers and allows for a thorough biodiversity assessment of project level activities in the Agriculture Forestry and Land Use AFOLU sector The second version of the guidelines includes additional information on how to use B INTACT together with FAO s Earthmap platform and the Ecosystem Service Valuation Database **Living in a Dynamic Tropical Forest Landscape** Nigel Stork,Stephen M. Turton,2009-01-26 This book brings

together a wealth of scientific findings and ecological knowledge to survey what we have learned about the Wet Tropics rainforests of North Queensland Australia This interdisciplinary text is the first book to provide such a holistic view of any tropical forest environment including the social and economic dimensions The most thorough assessment of a tropical forest landscape to date Explores significant scientific breakthroughs in areas including conservation genetics vegetation modeling agroforestry and revegetation techniques biodiversity assessment and modeling impacts of climate change and the integration of science in natural resource management Research achieved in part due to the Cooperative Research Centre for Tropical Rainforest Ecology and Management the Rainforest CRC Written by a number of distinguished international experts contains chapter summaries and section commentaries

Let's Review Biology-The Living Environment G. Scott Hunter, 2004-01-01 This high school classroom supplement to the main biology text prepares students in New York State to succeed on the Regents Exam It presents a subject review practice questions with answers and two complete Regents Biology Exam with answer keys When combined with Barron's Regents Exams and Answers Biology it provides students with the most comprehensive test preparation available anywhere Topics reviewed include ecology biological organization formation and structure of the ecosystem and the interaction between human beings and the biosphere

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 $n2 \times \text{ratio } n1 = 15 \times 50 = 750 \text{rpm}$ berarti putaran motor listrik 1500rpm harus kita turunkan dengan menggunakan
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 kecepatan rpm dan daya power pada sebuah elektro motor serta bagaimana hubungan antara torsi kecepatan dan daya
 rumus menghitung rpm motor listrik $f \times 120 \text{ pn}$ $f \times 120 \text{ pn}$ 50hz x 120 4n

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web may 7 2020 pernyataan ini dapat dibuktikan dengan rumus menghitung rpm dibawah ini $\text{rpm } f \times 120 \text{ p}$ rpm rotation per
 minute jumlah putaran dalam satu menit f frekuensi hz p pole jumlah kutub magnet jika sebuah motor listrik memiliki 4
 kutub magnet pole dan frekuensi sebesar 50hz nilai frekuensi ini adalah rata rata frekuensi

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 torque torsi kecepatan rpm dan daya power pada sebuah elektro motor serta bagaimana hubungan antara torsi kecepatan
 dan daya kita dapat melihat spesifikasi pada name plate sebuah elektro motor yang

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web lain hal pada putaran rendah motor listrik bisa menghasilkan torsi besar dan bekerja dengan efisiensi tinggi karena
 itulah mobil hybrid menggunakan listrik untuk memutar motor listrik yang disimpan di baterai untuk menjalankan pada saat

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web torsi pada motor dapat ditentukan dengan rumus umum yaitu t_p atau $t_p \times 2 \times n \times 60$ torsi motor $n \times m \times p$ daya motor $watt \times n$ jumlah putaran motor $rpm \times m$ terdapat 3 macam daya yaitu daya celah udara $p12$ daya rotor $p2$ dan daya keluaran po oleh karena itu torsi pada motor induksi 3 fasa dibedakan menjadi torsi

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web rumus di atas digunakan untuk mencari daya input suatu motor listrik sedangkan daya output motor listrik dapat dicari dengan menggunakan rumus yaitu $P_{out} = 0.1047 \times n \times m \times watt \times 2$ dimana P_{out} daya output motor watt n kecepatan $rpm \times m$ torsi $n \times m$ faktor daya \cos

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web dan menariknya kita juga dapat memperhitungkan putaran rotor per menit rpm pada sebuah dinamo motor listrik dengan menggunakan rumus berikut ini $rpm \times f \times 120$ p keterangan

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web motor listrik adalah suatu alat yang dapat mengubah energi listrik menjadi tenaga gerak putar dan hal ini tentunya dipengaruhi oleh 3 faktor yaitu daya listrik yang digunakan berapa kecepatannya putaran yang dihasilkan dan berapa besar tenaganya torsi rumus menghitung rpm motor listrik

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