

Biodiversity & Tradeoffs - Human Impact Notes #1

Name _____

Living Environment _____

Teacher's Edition

Class _____

Period _____ Date: _____

Biodiversity & Tradeoffs

Human Impact on the Environment

Biodiversity = A measure of how much variation exists among living things in an area

Biodiversity can be measured in terms of:

1. **Species diversity** – the number of different kinds of living things in an area
2. **Genetic diversity** – the amount of variation in genetic makeup in those organisms
3. **Landscape diversity** – the variation among ecoregions

Why is biodiversity valuable?

1. Biodiversity **performs ecosystem services** – “work done for living things, by living things”
 - a. Pollination
 - b. Oxygen production
 - c. Nutrient recycling
 - d. Fertilization
 - e. Pest control
 - f. Flood control
 - g. Temperature regulation
2. Biodiversity provides **stability in food webs**
 - a. If one species dies out, there are many more options that organisms may be able to eat
3. Biodiversity has \$**Economic value**
 - a. Fisheries
 - b. Forestry
 - c. Tourism
 - d. Recreation
 - e. Harvesting wild foods, medicines, dyes, rubber and chemicals

Ex. Madagascar periwinkle plant – yields the drugs
vincristine and vinblastine for treatment of leukemia

4. The **genetic** information of each species is valuable
 - a. An organism's adaptations

Answer Key Of Biology 1semester 2014

M Mark



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in University Education: Case Studies and Main Practices Saura, Jose Ramon, 2022-06-17 In the last decade the development of new technologies has made innovation a fundamental pillar of education Teaching innovation includes the evolution of both teaching and learning models to drive improvements in educational methodologies Teaching innovation is a pioneer in the understanding and comprehension of the different teaching methodologies and models developed in the academic area Teaching innovation is a process that seeks validation in the academic and teaching communities at universities in order to promote the improvement and its practices and uses in the future characterized by digital development and data based methods Teaching Innovation in University Education Case Studies and Main Practices features the major practices and case studies of teaching innovation developed in recent years at universities It is a source on study cases focused on teaching innovation methodologies as well as on the identification of new technologies that will help the development of initiatives and practices focused on teaching innovation at higher education institutions Covering topics such as didactic strategies service learning and technology based gamification this premier reference source is an indispensable resource for pre service teachers lecturers students faculty administrators libraries entrepreneurs researchers and academicians Designing and Teaching Undergraduate Capstone Courses Robert C. Hauhart, Jon E. Grahe, 2015-01-12

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Biologically Inspired Design Ashok K Goel, Daniel A McAdams, Robert B. Stone, 2013-07-16 From simple cases such as hook and latch attachments found in Velcro to articulated wing flying vehicles biology often has been used to inspire many creative design ideas The scientific challenge now is to transform the paradigm into a repeatable and scalable methodology Biologically Inspired Design explores computational techniques and tools that can help integrate the method into design practice With an inspiring foreword from Janine Benyus Biologically Inspired Design contains a dozen chapters written by some of the leading scholars in the transdisciplinary field of bioinspired design such as Frank Fish Julian Vincent and Jeannette Yen from biology and Amarendra Chakrabarti Satyandra Gupta and Li Shu from engineering Based in part on discussions at two workshops sponsored by the United States National Science Foundation this volume introduces and develops several methods and tools for bioinspired design including Information processing theories Natural language techniques Knowledge based tools and Functional approaches and Pedagogical techniques By exploring these fundamental theories techniques and tools for supporting biologically inspired design this volume provides a comprehensive resource for design practitioners wishing to explore the paradigm an invaluable guide to design educators interested in teaching the method and a preliminary reading for design researchers wanting to investigate bioinspired design

Building Inclusive Ethical Cultures in STEM Elisabeth Hildt, Kelly Laas, Eric M. Brey, Christine Z. Miller, 2024-02-22 This book shares innovative approaches to effectively engage students and faculty working in research labs lab based classrooms and courses to build inclusive ethical cultures The frameworks and approaches presented move beyond traditional research ethics training to strengthen the ethical culture in research labs The chapters in the book showcase best practices and approaches to embedding educational interventions in courses research labs and departments The book is based on the two day workshop Building Inclusive Ethical Cultures in STEM April 23 24 2021 Moving beyond the two day conference that inspired this collected volume the various chapters address questions like What are approaches and tools to integrate ethics education in STEM effectively How can STEM ethics education be improved What can researchers do to build more inclusive research environments How can meaningful discussions about ethics be effectively integrated into STEM courses research labs and workplace environments While each chapter takes a different perspective and is located in its respective context the contributions are united by the goal of effectively including

ethical reflection in STEM education Instructors from both four year and two year colleges who teach STEM and lab based STEM courses young principal investigators junior faculty who are in the process of building their research groups departmental chairs interested in programmatic approaches for improving mentoring research ethics education and the research culture of their department will find this work to be a very valuable resource in their daily practice

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