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Scientists can use pedigrees to determine if a disease is caused by a dominant or recessive allele. Pedigrees are helpful if family members want to know if they are carriers or if their children might get a genetic disease. Carriers are individuals who are heterozygous for a genetic disease, but do not show symptoms of the disorder.

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### *Pedigree Pogil - SIGE Cloud*

Pedigrees are used primarily by genetic counselors when helping couples decide to have children when there is evidence of a genetically inherited disorder in one or both families. They are also used when trying to determine the predisposition of someone to carry a hereditary disease for example, familial breast cancer.

### *STUDYING PEDIGREES ACTIVITY*

Genetics pogil Genetics pogil

### *Genetics pogil*

Pedigrees How do scientists trace hereditary diseases through a family history? BACKGROUND: Imagine you want to learn about an inherited genetic trait present in your family. How would you find out the chances of passing the trait to your children? To do so, genetic counselors often prepare a pedigree, a chart that shows how a trait is inherited over several generations in a family.

### *pedigrees-pogil - Name Per Pedigrees How do scientists ...*

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The volume begins with an overview of POGIL and a discussion of the science education reform context in which it was developed. Next, cognitive models that serve as the basis for POGIL are presented, including Johnstone's Information Processing Model and a novel extension of it. Adoption, facilitation and implementation of POGIL are addressed next. Faculty who have made the transformation from a traditional approach to a POGIL student-centered approach discuss their motivations and implementation processes. Issues related to implementing POGIL in large classes are discussed and possible solutions are provided. Behaviors of a quality facilitator are presented and steps to create a facilitation plan are outlined. Succeeding chapters describe how POGIL has been successfully implemented in diverse academic settings, including high school and college classrooms, with both science and non-science majors. The challenges for implementation of POGIL are presented, classroom practice is described, and topic selection is addressed. Successful POGIL instruction can incorporate a variety of instructional techniques. Tablet PC's have been used in a POGIL classroom to allow extensive communication between students and instructor. In a POGIL laboratory section, students work in groups to carry out experiments rather than merely verifying previously taught principles. Instructors need to know if students are benefiting from POGIL practices. In the final chapters, assessment of student performance is discussed. The concept of a feedback loop, which can consist of self-analysis, student and peer assessments, and input from other instructors, and its importance in assessment is detailed. Data is provided on POGIL instruction in organic and general chemistry courses at several institutions. POGIL is shown to reduce attrition, improve student learning, and enhance process skills.

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

Baum and Smith, both professors evolutionary biology and researchers in the field of systematics, present this highly accessible introduction

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to phylogenetics and its importance in modern biology. Ever since Darwin, the evolutionary histories of organisms have been portrayed in the form of branching trees or "phylogenies." However, the broad significance of the phylogenetic trees has come to be appreciated only quite recently. Phylogenetics has myriad applications in biology, from discovering the features present in ancestral organisms, to finding the sources of invasive species and infectious diseases, to identifying our closest living (and extinct) hominid relatives. Taking a conceptual approach, *Tree Thinking* introduces readers to the interpretation of phylogenetic trees, how these trees can be reconstructed, and how they can be used to answer biological questions. Examples and vivid metaphors are incorporated throughout, and each chapter concludes with a set of problems, valuable for both students and teachers. *Tree Thinking* is must-have textbook for any student seeking a solid foundation in this fundamental area of evolutionary biology.

Presents brief entries describing the gods and goddesses from the mythology and religion of a wide variety of cultures throughout history.

Presents a multifaceted model of understanding, which is based on the premise that people can demonstrate understanding in a variety of ways.

**Key Benefit:** Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. \* Completely revised to match the new 8th edition of *Biology by Campbell and Reece*. \* New Must Know sections in each chapter focus student attention on major concepts. \* Study tips, information organization ideas and misconception warnings are interwoven throughout. \* New section reviewing the 12 required AP labs. \* Sample practice exams. \* The secret to success on the AP Biology exam is to understand what you must know—and these experienced AP teachers will guide your students toward top scores! **Market Description:** Intended for those interested in AP Biology.

Using real stories with quantitative reasoning skills enmeshed in the story line is a powerful and logical way to teach biology and show its relevance to the lives of future citizens, regardless of whether they are science specialists or laypeople.” —from the introduction to *Science Stories You Can Count On* This book can make you a marvel of classroom multitasking. First, it helps you achieve a serious goal: to blend 12 areas of general biology with quantitative reasoning in ways that will make your students better at evaluating product claims and news reports. Second, its 51 case studies are a great way to get students engaged in science. Who wouldn't be glad to skip the lecture and instead delve into investigating cases with titles like these: • “A Can of Bull? Do Energy Drinks Really Provide a Source of Energy?” • “ELVIS Meltdown! Microbiology Concepts of Culture, Growth, and Metabolism” • “The Case of the Druid Dracula” • “As the Worm Turns: Speciation and the Maggot Fly” • “The Dead Zone: Ecology and Oceanography in the Gulf of Mexico” Long-time pioneers in the use of

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educational case studies, the authors have written two other popular NSTA Press books: *Start With a Story* (2007) and *Science Stories: Using Case Studies to Teach Critical Thinking* (2012). *Science Stories You Can Count On* is easy to use with both biology majors and nonscience students. The cases are clearly written and provide detailed teaching notes and answer keys on a coordinating website. You can count on this book to help you promote scientific and data literacy in ways to prepare students to reason quantitatively and, as the authors write, “to be astute enough to demand to see the evidence.”

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