

Natural Selection Laboratory

Introduction:

Several bird species live in a small, grassy habitat where they compete for the same food resources. Each bird species has a different beak type in which to capture 3 main prey in the habitat. As participants, you will determine what beak type will be selected for in this habitat.

The class will be divided into groups to represent the 3 beak types: forks, spoons, and knives. The members of each group will work together to try and help maintain the existence of their species.

Materials:

Beaks - Forks, spoons, knives

Prey - wheel pasta, shell pasta, popcorn kernels

Habitat - Piece of large construction paper

Plastic cups

Stopwatch

Graph paper

Pencil

Procedure:

1. Within your group: select 3 birds and 1 data collector
2. As a group, brainstorm on how your beak will be best utilized in the habitat. Describe ways in which the beak can capture prey:
3. Form a hypothesis on how you think your beak will do capturing prey compared with the others. (ie. We hypothesize that the knife will capture the most prey because...). Write the hypothesis on your lab report sheet.
4. Lay your habitat on the table. Birds will get ready outside of the habitat with feeding tool and 1 cup per bird.
5. The data collector should easily pour out the prey and spread it out evenly within the habitat. Make sure all prey are located in the habitat (on the construction paper).
6. The teacher (timer) will say GO and for 1 minute, birds will capture prey with their "beak" and place the prey in the cup. DO NOT use 2 hands or the cup to capture prey. Keep cup vertical. Do not touch or push away any of the other beaks. All prey must stay in the habitat to be captured.
7. While the birds collect prey, observers (the data collector) should be taking notes on how the birds are capturing prey.
8. After 1 minute, the timer says STOP and the birds exit the habitat.
9. The birds go back to the group and the group counts prey by type and then total prey.
10. The data collector records results in TABLE 1 under FEEDING 1.
11. After the prey are counted, put it aside and repeat steps 4-9 for 2 more feeding periods.
12. After the feeding periods, all groups in the class will report results to complete the table.

Natural Selection Lab Answer Key

**Stephen Miles Uzzo, Sherryl Browne
Graves, Erin Shay, Marisa
Harford, Robert Thompson**

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The Self-Regulated Learning Guide Timothy J. Cleary, 2018-02-01 The Self Regulated Learning Guide introduces K 12 teachers to the basics of self regulation Highly practical and supported by cutting edge research this book offers a variety of techniques for seamlessly infusing self regulated learning principles into the classroom and for nurturing students motivation to strategize reflect and succeed Featuring clear explanations of the psychology of self regulation these nine chapters provide teachers with core concepts realistic case scenarios reflection activities and more to apply SRL concepts to classroom activities with confidence

CUET PG Anthropology - Question Bank (2400 MCQs Chapterwise) Mocktime Publication, 2400 MCQs CUET PG Question Bank Anthropology CUEG PG Previous Papers CUET PG Syllabus CUET PG Exam Pattern

Biological Investigations Lab Manual Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life

K-12 STEM Education: Breakthroughs in Research and Practice Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal

reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education *Revolutionizing K-12 Blended Learning through the i²Flex Classroom Model* Avgerinou, Maria D.,Gialamas, Stefanos P.,2016-06-20 Blended learning has gained significant attention recently by educational leaders practitioners and researchers i Flex a variation of blended learning is based on the premise that certain non interactive teaching activities such as lecturing can take place by students without teachers direct involvement Classroom time can then be used for educational activities that fully exploit teacher student and student student interactions allowing for meaningful personalized feedback and scaffolding on demand Revolutionizing K 12 Blended Learning through the i Flex Classroom Model presents a well rounded discussion on the i Flex model highlighting methods for K 12 course design delivery and evaluation in addition to teacher performance assessment in a blended i Flex environment Emphasizing new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators and educational technology developers *Evangelical Writing in a Secular Imaginary* Emily Murphy Cope,2024-02-13 Evangelical Writing in a Secular Imaginary addresses the question of how Christian undergraduates engage in academic writing and how best to teach them to participate in academic inquiry and prepare them for civic engagement Exploring how the secular both constrains and supports undergraduates academic writing the book pays special attention to how it shapes younger evangelicals social identities perceptions of academic genres and rhetorical practices The author draws on qualitative interviews with evangelical undergraduates at a public university and qualitative document analysis of their writing for college grounded in scholarship from social theory writing studies sociology of religion rhetorical theory and social psychology to describe the multiple ways these evangelicals participate in the secular imaginary that is the public university through their academic writing The conception of a secular imaginary provides an explanatory framework for examining the lived experiences and academic writing of religious students in American institutions of higher education By examining the power of the secular imaginary on academic writers this book offers rhetorical educators a more complex vocabulary that makes visible the complex social forces shaping our students experiences with writing This book will be of interest not just to scholars and educators in the area of rhetoric writing studies and communication but also those working on religious studies Christian discourse and sociology of religion *Pedagogical Content Knowledge in STEM* Stephen Miles Uzzo,Sherryl Browne Graves,Erin Shay,Marisa Harford,Robert Thompson,2018-10-25 This volume represents both recent research in pedagogical content knowledge PCK in science technology engineering and math STEM as well as emerging innovations in how PCK is applied in practice The notion of research to practice is critical to validating how effectively PCK works within the clinic and how it can be used to improve STEM learning As the need for more effective educational approaches in STEM grows the importance of developing identifying and validating effective practices and practitioner

competencies are needed This book covers a wide range of topics in PCK in different school levels middle school college teacher training teacher professional development and different environments museums rural The contributors believe that vital to successful STEM education practice is recognition that STEM domains require both specialized domain knowledge as well as specialized pedagogical approaches The authors of this work were chosen because of their extensive fieldwork in PCK research and practice making this volume valuable to furthering how PCK is used to enlighten the understanding of learning as well as providing practical instruction This text helps STEM practitioners researchers and decision makers further their interest in more effective STEM education practice and raises new questions about STEM learning

The American Biology Teacher ,2007-08

Methodologies for Effective Writing Instruction in EFL and ESL Classrooms Al-Mahrooqi, Rahma,2014-10-31 Educators continue to strive for advanced teaching methods to bridge the gap between native and non native English speaking students Lessons on written forms of communication continue to be a challenge recognized by educators who wish to improve student comprehension and overall ability to write clearly and expressively Methodologies for Effective Writing Instruction in EFL and ESL Classrooms brings together research and practices for successful written communication teaching among students of diverse linguistic backgrounds With technological advancements and resources educators are able to implement new tools into their lesson plans for the benefit of their students This publication is an essential reference source for professionals educators and researchers interested in techniques and practices for written communication in English language teaching geared towards non native English speaking students

Teacher's Wraparound Edition: Tve Biology Everyday Experience Albert Kaskel,1994-04-19 *Biology* Sylvia S. Mader,2004 This text covers the concepts and principles of biology from the structure and function of the cell to the organization of the biosphere It draws upon the world of living things to bring out an evolutionary theme The concept of evolution gives a background for the study of ecological principles

Science Experiments Tammy K. Williams,2002-10 *Chapter Resource 13 Theory/Evolution Biology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

Cracking the Ap Biology, 1997-98 Kim Magloire,Princeton Review (Firm),1997-03 College tuitions are rising and students can save money by earning credits for what they ve learned in high school The AP exams are used to grant college credits or advanced standing

The Interdisciplinary Reader James Dale Williams,1992 Holt Biology Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008

Books Out Loud ,2007 **Programming Concepts, Automata, and Adaptive Systems** University of Michigan. Engineering Summer Conferences, 1961,1961 **Aging and Levels of Biological Organization** American Institute of Biological Sciences,1965

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