Student Exploration: Dichotomous Keys

Vecabulary: dichotomous key, genus, organism, scientific name, species, traits

Prior Knowledge Question (Do this BEFORE using the Gizmo.)



Jerome is walking through a park when he sees the spider shown at left. How could Jerome find out what type of spider it is?

Jerome can use a chart called the Dichotomous Key to find out what characteristics and features the spider has to find out what the type of spider he sees is.

Gizmo Warm-up

In the field, scientists often have to identify an unfamiliar organism (living thing). A reliable way to identify organisms is to use a dichotomous key. A dichotomous key is a series of paired statements or questions that lead to the identification of an organism.

The Dichotomous Keys Gizmo allows you to use five different dichotomous keys to identify a variety of organisms. To begin, make sure California Albatrosses and Organism A are selected.



Read the two statements at lower right. Which of the two statements most closely matches
the characteristics of the bird pictured?

Large areas of the bird's body are covered in white feathers.

- Select that statement and click Next. Continue until you have correctly identified the albatross. If you change your mind about a choice, you can click the Back button. If you incorrectly identify the albatross, you can click the Start Over button and try again.
 - A. What is the name of the albatross? <u>The name of the Albatross is identified as the Short-Tailed Albatross</u>.
 - B. The scientific name is shown in italics. Scientific names have two parts: the genus name and the species name. What is the scientific name of this albatross?

The scientific name for the Short-Tailed Albatross is the Phoebastria albatrus.



Answers For Dichotomous Key Student Exploration Guide

SJ Ball

Answers For Dichotomous Key Student Exploration Guide:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents **Biology** ,1987 Picture-Perfect Science Lessons Karen Rohrich Ansberry, Emily Morgan, 2010 How do you improve upon perfection For years new and experienced elementary school teachers alike have extolled the virtues of Picture Perfect Science Lessons the expertly combined appeal of children's picture books with standards based science content The award winning bestselling book presents ready to teach lessons complete with student pages and assessments that use high quality fiction and nonfiction picture books to quide hands on science inquiry This newly revised

and expanded 2nd edition of Picture Perfect Science Lessons manages to surpass the original Classroom veterans Karen Ansberry and Emily Morgan who also coach teachers through nationwide workshops know elementary educators are usually crunched for science instructional time and could often use refresher explanations of scientific concepts So the authors added comprehensive background notes to each chapter and included new reading strategies They still show you exactly how to combine science and reading in a natural way with classroom tested lessons in physical science life science and Earth and space science And now they offer five brand new lessons Batteries Included The Secrets of Flight Down the Drain If I Built a Car and Bugs bringing the total to 20 Picture Perfect Science Lessons draws on such diverse and engaging books as Dr Xargle s Book of Earth Hounds A House for Hermit Crab Rice Is Life Oil Spill Sheep in a Jeep The Perfect Pet and Weird Friends Unlikely Allies in the Animal Kingdom As a result both reluctant scientists and struggling readers will guickly find themselves absorbed in scientific discovery You ll love how effective this book is and your students will love learning about Assessment that Informs Practice, 2000 **Innovative Curriculum Materials** ,1999 science ENC Focus, 2000 Carolina Science and Math Carolina Biological Supply Company, 2003 Teaching Science ,2004 Shark!, 1995 Integrates science mathematics geography art and language to teach Magazine for Innovators, 1999 students about sharks and the ecology of the ocean Includes reproducible worksheets Science Richard Moyer, 2000 For **Resources in Education** ,1999 The Software Encyclopedia ,1988 **Inclusive College Classrooms** grades 16 Lauren S. Cardon, Anne-Marie Womack, 2022-12-27 Inclusive College Classrooms provides instructors with research based practices and tools to create an effective and inclusive classroom environment Filling a visible gap in pedagogical training this important book responds to current barriers to inclusion in higher education by helping instructors improve the methods they are already using and identify new methods that could enhance their courses The inclusive approach in this book is informed by critical pedagogy universal design for learning and intersectional social justice pedagogies The authors identify practices in education that exclude historically marginalized groups and outline teaching strategies that can create more inclusive classrooms where all students can feel heard and represented This timely volume is packed full of hundreds of example lessons from across a range of disciplines tips for moving classes online questions to generate dialogue about various methods and appendices on lesson planning With this book in hand instructors can continually adapt and revise their pedagogy to be more inclusive and effective The Reflective Educator's Guide to Practitioner Inquiry Nancy Fichtman Dana, Diane Yendol-Hoppey, Logan Rutten, 2025-05-30 Transform your teaching and shape education through the power of inquiry Grounded in real world examples and more than 30 years of research in professional development the fifth

edition of The Reflective Educator's Guide to Practitioner Inquiry addresses how inquiry fosters curiosity reflection and practical action to enhance effective classroom learning This latest edition invites educators to view inquiry as a process a product and a stance The book offers new sections on the relationship between AI and teacher inquiry and the ways in which

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