Classifying Sharks using a Dichotomous Key

A classification system is a way of separating a large group of closely related organisms into smaller subgroups. With such a system, identification of an organism is easy. The scientific names of organisms are based on the classification systems of living organisms.

To classify an organism, scientists often use a **dichotomous key**. A **dichotomous key** is a listing of specific characteristics, such as structure and behavior, in such a way that an organism can be identified through a process of elimination.

In this investigation, it is expected that you:

- 1) Use a key to identify 14 shark families.
- Study the method used in phrasing statements in a key.

Procedure

 Read sentences 1A and 1B of the key. Then study shark 1 in figure A for the characteristics referred to in 1A and 1B. Follow the directions in these sentences and continue with this process until a family name for Shark 1 is determined.

For example, if the shark has an anal fin, and its body is not kite shaped, following the directions of 1A and go directly to sentence 2. If the shark lacks and anal fin or has a kite shaped body, follow the directions of 1B and go to sentence 10.

- Continue this process with each shark until all animals have been identified. Write the family name on the line below each animal.
- 3. Use figure 1 as a guide to the anatomical features used in the key.

Doersal side

first doesal fin

second dorsal fin

caudal fin

gill slits

petvic fin

Figure 1 – Anatomy of a Shark

Ventral side

Shark Dichotomous Question Answer

Roman Wölfel

Shark Dichotomous Question Answer:

Teach Science with Science Fiction Films Terence W. Cavanaugh, Cathy Cavanaugh, 2004 Use an interactive approach to keep students engaged and excited about learning science with 25 teaching modules that cover ten major science areas One of a kind tool that covers all areas of science with films Make learning fun while meeting science and information literacy Shark! ,1995 Integrates science mathematics geography art and language to teach students about sharks and the ecology of the ocean Includes reproducible worksheets Language, Cognition, and Human Nature Steven Pinker, 2013-09-27 Language Cognition and Human Nature collects together for the first time much of Steven Pinker's most influential scholarly work on language and cognition Pinker's seminal research explores the workings of language and its connections to cognition perception social relationships child development human evolution and theories of human nature This eclectic collection spans Pinker's thirty year career exploring his favorite themes in greater depth and scientific detail It includes thirteen of Pinker's classic articles ranging over topics such as language development in children mental imagery the recognition of shapes the computational architecture of the mind the meaning and uses of verbs the evolution of language and cognition the nature nurture debate and the logic of innuendo and euphemism Each outlines a major theory or takes up an argument with another prominent scholar such as Stephen Jay Gould Noam Chomsky or Richard Dawkins Featuring a new introduction by Pinker that discusses his books and scholarly work this collection reflects essential contributions to cognitive science by one of our leading thinkers and public intellectuals **Resources in education** Metadata and Semantics Research Emmanouel Garoufallou, Richard J. Hartley, Panorea Gaitanou, 2015-09-03 ,1987-07 This book constitutes the refereed proceedings of the 9th Metadata and Semantics Research Conference MTSR 2015 held in Manchester UK in September 2015 The 35 full papers and 3 short papers presented together with 2 poster papers were carefully reviewed and selected from 76 submissions. The papers are organized in several sessions and tracks general track on ontology evolution engineering and frameworks semantic Web and metadata extraction modelling interoperability and exploratory search data analysis reuse and visualization track on digital libraries information retrieval linked and social data track on metadata and semantics for open repositories research information systems and data infrastructure track on metadata and semantics for agriculture food and environment track on metadata and semantics for cultural collections and Evaluating the Knowledge of at Risk High School Students in applications track on European and national projects **Ecology Through Alternative Assessment** Tina Marie Kopinski,2007 Lgsg Science for Lower Sec Vol 1 Yugarani Thanabalasingam, 2008 **DENDROLOGY** NARAYAN CHANGDER, 2023-04-09 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the

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appraisals It is essential reading for teachers researchers students and practitioners in fishery economics economic development ecosystem management and other key issues facing policymakers in the Southeast Asian region Evidence and Evolution Elliott Sober, 2008-03-27 How should the concept of evidence be understood And how does the concept of evidence apply to the controversy about creationism as well as to work in evolutionary biology about natural selection and common ancestry In this rich and wide ranging book Elliott Sober investigates general guestions about probability and evidence and shows how the answers he develops to those questions apply to the specifics of evolutionary biology Drawing on a set of fascinating examples he analyzes whether claims about intelligent design are untestable whether they are discredited by the fact that many adaptations are imperfect how evidence bears on whether present species trace back to common ancestors how hypotheses about natural selection can be tested and many other issues His book will interest all readers who want to understand philosophical questions about evidence and evolution as they arise both in Darwin's work and in contemporary biological research Mapping the Edges and the In-between Nancy Nyguist Potter, 2009-06-25 Borderline Personality Disorder BPD is a diagnosis given to a significant number of people in the Western world Yet many of the core concepts symptoms that go with this diagnosis are questionable This book presents a compelling analysis of BPD arguing that it needs to be approached in a new light one that will benefit patients The Journal of the Producers Guild **Shifting Concepts** Teresa Margues, Åsa Wikforss, 2020-09-03 Concepts stand at the centre of human of America ,1967 cognition We use concepts in categorizing objects and events in the world in reasoning and action and in social interaction It is therefore not surprising that the study of concepts constitutes a central area of research in philosophy and psychology yet only recently have the two disciplines developed greater interaction Recent experiments in psychology that test the role of concepts in categorizing and reasoning have found a great deal of variation across individuals and cultures in categorization behaviour Meanwhile philosophers of language and mind have investigated the semantic properties of concepts and how concepts are related to linguistic meaning and linguistic communication A key motivation behind this was the idea that concepts must be shared across individuals and cultures With the dawn of experimental philosophy the proposal that the experimental data from psychology lacks relevance to semantics is increasingly difficult to defend This volume brings together leading psychologists and philosophers to advance the interdisciplinary debate on the role of concepts in categorizing and reasoning the relationship between concepts and linguistic meaning and communication the challenges conceptual variation poses to communication and the social and political effects of conceptual change Mercury Awareness and Fish Consumption Among Wisconsin Residents Elizabeth A. Katt-Reinders, 2006

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