

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.
- 2) Study the method used in phrasing statements in a key.

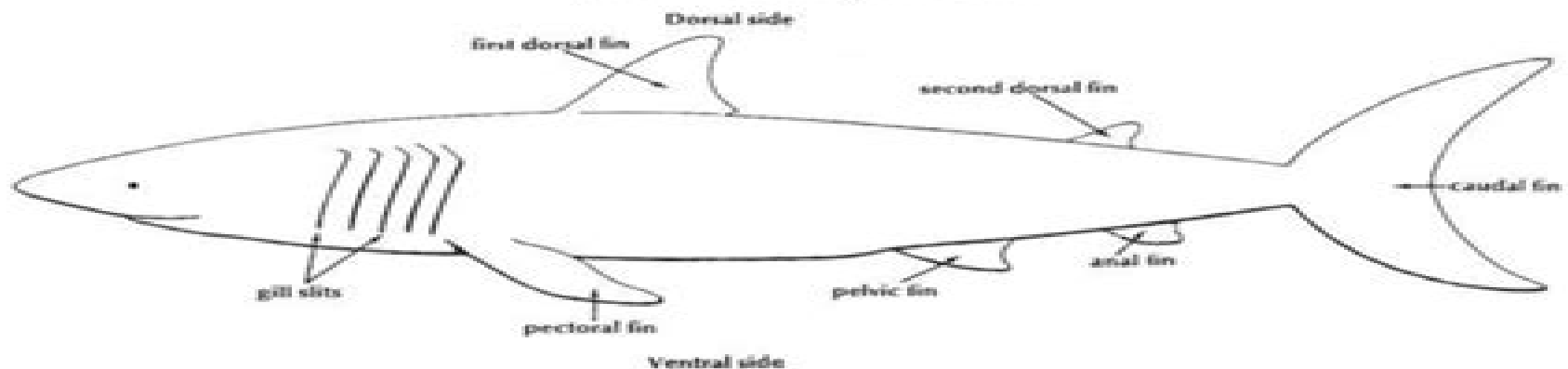
Procedure

1. 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 an anal fin or has a kite shaped body, follow the directions of 1B and go to sentence 10.

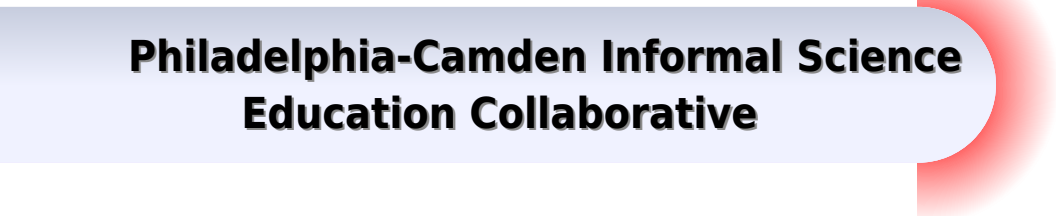
2. Continue this process with each shark until all animals have been identified. Write the family name on the line below each animal.
3. Use figure 1 as a guide to the anatomical features used in the key.

Figure 1 – Anatomy of a Shark



Data And Observation Shark Dichotomus Key

**Philadelphia-Camden Informal Science
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Data And Observation Shark Dichotomus Key:

Biology of Sharks and Their Relatives Jeffrey C. Carrier, Colin A. Simpfendorfer, Michael R. Heithaus, Kara E. Yopak, 2022-06-08 Biology of Sharks and Their Relatives is an award winning and groundbreaking exploration of the fundamental elements of the taxonomy systematics physiology and ecology of sharks skates rays and chimera This edition presents current research as well as traditional models to provide future researchers with solid historical foundations in shark research as well as presenting current trends from which to develop new frontiers in their own work Traditional areas of study such as age and growth reproduction taxonomy and systematics sensory biology and ecology are updated with contemporary research that incorporates emerging techniques including molecular genetics exploratory techniques in artificial insemination and the rapidly expanding fields of satellite tracking remote sensing accelerometry and imaging With two new editors and 90 contributors from the US UK South Africa Portugal France Canada New Zealand Australia India Palau United Arab Emirates Micronesia Sweden Argentina Indonesia Cameroon and the Netherlands this third edition is the most global and comprehensive yet It adds six new chapters representing extensive studies of health stress disease and pathology and social structure and continues to explore elasmobranch ecological roles and interactions with their habitats The book concludes with a comprehensive review of conservation policies management and strategies as well as consideration of the potential effects of impending climate change Presenting cohesive and integrated coverage of key topics and discussing technological advances used in modern shark research this revised edition offers a well rounded picture for students and researchers *Harcourt Science HSP*, 1999-04 Adopted by Rowan Salisbury Schools *Deep-sea Cartilaginous Fishes of the Indian Ocean. Volume 2 - Batoids and Chimaeras* Food and Agriculture Organization of the United Nations, 2018-11-15 This volume is a comprehensive fully illustrated catalogue of the sharks batoid fishes and chimaeras of the Indian Ocean It includes 10 orders 23 families 45 genera and 78 species of cartilaginous fishes providing accounts for all orders families and genera and all keys to taxa are fully illustrated **Family Learning in Museums** Philadelphia-Camden Informal Science Education Collaborative, 1998 **Classification Literature Automated Search Service** , 1973 An Annotated Bibliography of Research in Economically Important Species of California Fish and Game , 1964 **Government Reports Annual Index** , 1983 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z **Government Reports Annual Index: Keyword A-L** , 1983 Documentation de la FAO. , 1984 **Documentacion de la FAO, Pesca 1986-1990** David Lubin Memorial Library, 1991 **Shark!** , 1995 Integrates science mathematics geography art and language to teach students about sharks and the ecology of the ocean Includes reproducible worksheets A *Probabilistic Characterization of Shark Movement Using Location Tracking Data* Samuel Ackerman, 2018 Our data consist of measurements of 22 sharks movements within a 366 acre tidal basin The measurements are made at irregular time points

over a 16 month interval Constant length observation intervals would have been desirable but are often infeasible in practice We model the sharks paths at short constant length intervals by inferring their behavior feeding vs transiting interpolating their locations and estimating parameters of motion speed and turning angle in environmental and ecological contexts We are interested in inferring regional differences in the sharks behavior and behavioral interaction between them Our method uses particle filters a computational Bayesian technique designed to sequentially model a dynamic system We discuss how resampling is used to approximate arbitrary densities and illustrate its use in a simple example of a particle filter implementation of a state space model We then introduce a particular model formulation that uses conditioning to introduce unobserved parameters for the shark s behaviors We show how the irregularly observed shark locations can be modeled by interpolation as a set of movements at constant length time intervals We use a spline method for generating approximations of the ground truth at these intervals for comparison with our model Finally we demonstrate our model s estimates of the sharks behavioral and ecological parameters of interest on a subset of the observed data

Biology of Sharks and Their Relatives, Second Edition Jeffrey C. Carrier, John A. Musick, Michael R. Heithaus, 2012-04-09 Virtually every area of research associated with sharks and their relatives has been strongly impacted by the revolutionary growth in technology The questions we can now ask are very different than those reported even two decades ago Modern immunological and genetic techniques satellite telemetry and archival tagging modern phylogenetic analysis GIS and bomb dating are just a few of the techniques and procedures that have become a part of our investigative lexicon A modern synthesis of the biology of Chondrichthyans **Biology of Sharks and Their Relatives Second Edition** discusses significant advances in the development and application of new molecular techniques to the understanding of the phylogenetic relationships among and between these groups The book considers the effect of global changes on the status of sharks and their relatives and how advances in technology and analytical techniques have changed not only how we approach problem solving and scientific investigations but how we formulate questions The book also introduces applications of new and novel laboratory devices techniques and field instruments This second edition of the award winning and groundbreaking original exploration of the fundamental elements of the taxonomy systematics physiology and ecology of sharks skates rays and chimera presents cohesive and integrated coverage of key topics and discusses technological advances used in modern shark research Offering a well rounded picture for students and researchers and far above competitors in scope and research this new volume holds a wealth of data on the current status of Chondrichthyan research and provides the basis and springboard for original research Cover photo by Justin Gilligan [Discovering Behaviours in Captive Port Jackson Sharks \(Heterodontus Portusjacksoni\) Using Accelerometers](#) Julianna Kadar, 2017 Uncovering how animals utilise their time in the wild is vital to understanding their ecology Continuous observation in a marine environment is not feasible but telemetry devices provide an opportunity for fine scale analysis of movement and behaviour We used accelerometers to investigate activity patterns and behaviours of

the Port Jackson shark *Heterodontus portusjacksoni* with the aim of building a model from captive sharks that can be applied to wild populations We developed techniques to identify behaviours from two types of accelerometers high and low resolution To validate the accelerometer data we identified shark behaviours from multi angle high definition video that was time matched to both types of accelerometer data The low resolution accelerometer Vemco V13AP was used to identify diel patterns and migratory restlessness in captive sharks Wild shark diel patterns and presence data were used as a comparative measure to validate findings The high resolution accelerometer Cefas G6a tested the application of a classification tree method in classifying four behaviours resting swimming vertical swimming against the wall of the enclosure and chewing on prey Through evaluating the ability of two types of accelerometers to identify captive shark behaviour we are validating methods for long term low resolution looking for trends and short term high resolution detailed behaviours observation of wild shark populations

Field Guide to Sharks, Rays & Chimaeras of Europe and the Mediterranean David A. Ebert, Marc Dando, 2020-12-08 The definitive field guide to all the sharks rays and chimaeras of the European Atlantic and Mediterranean The waters of the northeast Atlantic and Mediterranean Sea are home to an amazing variety of sharks rays and chimaeras This comprehensive and easy to use field guide covers all 146 species found in the Mediterranean the waters of the European Atlantic and Iceland along all the Scandinavian coasts in the Black Sea and as far south as the Canary Islands Detailed species accounts describe key identification features habitat biology and status Every species account comes with a colour distribution map a depth guide at a glance icons and colour illustrations This must have field guide also features illustrated key guides that enable you to accurately identify down to species comparison plates of similar species illustrations of eggcases where known and plates of teeth The first field guide to cover all 146 species Features hundreds of colour illustrations photos maps and diagrams Describes key features habitat biology and status Includes depth guides at a glance icons key guides and teeth plates

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