

Dichotomous Key for Animal Classification

Your instructor will demonstrate how to use a dichotomous key. A simple dichotomous key to some members of the animal kingdom is included in this exercise. Begin at step one of the key for each specimen that has been set up in the demonstration area of the lab. Identify the name of the organism at each station. Remember, the purpose of this identification is to become familiar with the classification characteristics of the organism you are identifying.

Number a blank sheet of paper as directed by your instructor. When you have determined the name of the organism, write the underlined name (from the key) opposite the appropriate number on your sheet.

You may begin your work at any station and proceed to any available station thereafter; just be careful to place your answer at the appropriate number on your answer sheet.

1A. Animal has internal skeleton— Phylum Chordata	19
1B. Animal has external skeleton or no apparent skeleton	2
2A. Irregular-shaped body; porous— Phylum Porifera (e.g., sponges)	
2B. Regular-shaped body (symmetrical)	3
3A. Radial symmetry (pincushion pattern)	4
3B. Bilateral symmetry (similar right and left body halves)	6
4A. Arms extend from a central disc, or spines present— Phylum Echinodermata	18
4B. Soft body; little or no color— Phylum Coelenterata	5
5A. Saucer-shaped transparent body with small tentacles— Class Scyphozoa (e.g., jellyfish)	
5B. Barrel-shaped body; tentacles at one end— Class Anthozoa (e.g., sea anemones)	
6A. Hard outer covering, tentacles or antennae present	10
6B. Wormlike body	7
7A. Flattened specimen— Phylum Platyhelminthes	8
7B. Cylindrical specimen	9
8A. Smooth, nonsegmented body— Class Trematoda (e.g., liver fluke)	
8B. Apparently segmented, flattened body— Class Cestoda (e.g., tapeworm)	
9A. Nonsegmented, colorless body— Phylum Aschelminthes (e.g., intestinal roundworm)	
9B. Segmented body— Phylum Annelida (e.g., earthworm)	
10A. Body has jointed legs— Phylum Arthropoda	14
10B. Soft body has no jointed legs— Phylum Mollusca	11
11A. Shell absent; tentacles present	12
11B. Shell present	13
12A. Appears as snail without shell— Class Gastropoda (e.g., slug, snail)	
12B. Tentacles and eyes present— Class Cephalopoda (e.g., squid)	
13A. Bilateral shell (two halves)— Class Pelecypoda (e.g., clam)	
13B. Univalved shell (single unit)— Class Gastropoda (e.g., whelk)	
14A. Jointed appendages on most body sections	15
14B. jointed appendages on certain body segments; not all appendages are legs	16
15A. One pair of legs per body segment— Class Chilopoda (e.g., centipede)	
15B. Two pairs of legs per body segment— Class Diplopoda (e.g., millipede)	
16A. Two pairs of antennae; large claws— Class Crustacea (e.g., fiddler crab)	
16B. No large claws	17
17A. Four pairs of legs; no antennae or wings— Class Arachnida (e.g., spider)	
17B. Three pairs of legs; wings present— Class Insecta (e.g., mud dauber wasp)	
18A. Arms present; body surface knobby— Class Asteroidea (e.g., stars)	
18B. Many-spined animal; resembles a pincushion— Class Echinoidea (e.g., sea urchin)	
19A. Fishlike	20
19B. Not fishlike	21
20A. Body flattened; long lancetlike tail— Class Chondrichthyes (e.g., stingray)	
20B. Scales present; tail not lancetlike— Class Osteichthyes (e.g., sea bass)	
21A. Claws usually present; scales; zero or four legs— Class Reptilia (e.g., snake)	
21B. Claws either present or absent; no scales	22
22A. Claws absent— Class Amphibia (e.g., eastern spotted newt)	
22B. Skin covered with feathers or hair	23
23A. Feathered; claws present— Class Aves (e.g., bald eagle)	
23B. Hair present— Class Mammalia (e.g., dog)	

Mammal Skull Dichotomous Key

Bryan P. Glass



Mammal Skull Dichotomous Key:

A Key-guide to Mammal Skulls and Lower Jaws Aryan I. Roest, 1986 These keys will help identify the skulls of most wild and domestic mammals which occur in the United States and southern Canada Page 1

Mammalogy Techniques Lab Manual James M. Ryan, 2018-10-30 Get outside A hands on lab manual for instructors incorporating fieldwork into their courses on mammalogy Mammals inhabit nearly every continent and every sea They have adapted to life underground in the frozen Arctic the hottest deserts and every habitat in between In Mammalogy Techniques Lab Manual the only field manual devoted to training the next generation of mammalogists biologist and educator James M Ryan details the modern research techniques today's professionals use to study mammals wherever they are found Ideal for any mammalogy or wildlife biology course this clear and practical guide aids students by getting them outside to study mammals in their natural environments Twenty comprehensive chapters cover skull and tooth identification radio and satellite GPS tracking phylogeny construction mark and recapture techniques camera trapping museum specimen preparation optimal foraging and DNA extraction among other topics Each chapter includes several exercises with step by step instructions for students to collect and analyze their own data along with background information downloadable sample data sets to use when it is not practical to be out in the field and detailed descriptions of useful open source software tools This pragmatic resource provides students with real world experience practicing the complex techniques used by modern wildlife biologists With more than 60 applied exercises to choose from in this unique manual students will quickly acquire the scientific skills essential for a career working with mammals

A Dichotomous Key to the Skulls of the Recent Land Mammals of the Southeastern United States James H. Jenkins, 1949

An Illustrated Key to the Skulls of the Mammals in Tasmania R. H. Green, 1983

Using Forensics: Wildlife Crime Scene! Lauren M. Sanders Arndt, 2007-10 With Forensics Wildlife Crime Scene your students investigate an actual crime learn the science behind animal species identification and find out about efforts to fight real world threats against wild animals The book is designed to be engaging for both you and your student detectives It's also easy to use The material is divided into four clear sections 1 Background about crimes that threaten wild animal species around the world 2 Eight forensic training lessons about antlers and horns blood typing DNA fingerprinting fingerprints hair identification pH and pH indicators mammal skulls and tracks and trace fossils 3 An investigation simulation based on a real wildlife crime the illegal shooting and dismemberment of a bear Students work in teams to review crime scene reports conduct interviews of suspects and witnesses analyze evidence and bring charges before a prosecuting attorney 4 Teacher strategies for evaluating individual students and student teams Using Forensics Wildlife Crime Scene is an ideal complement to middle and high school courses in biology environmental science general science and criminology It provides a high interest real life format for learning a variety of scientific concepts and skills that correlate with the Standards It also gives students reason to genuinely care about preserving the wildlife and ecosystems they're studying

Marine Mammals of the World Thomas

A. Jefferson, Stephen Leatherwood, Marc A. Webber, Food and Agriculture Organization of the United Nations, 1993-01-01
 Identification guide to marine mammals and to cetaceans seals and sirenians found in fresh water **Skullduggery** Chris Stuart, Mathilde Stuart, 2021-01-01 In this short but informative guide trusted authors Chris and Mathilde Stuart turn mammal ID on its head literally The identification of mammal skulls is the subject of this latest addition to the quirky Quick Guide series and covers the most common skulls readers are likely to encounter in the wild from easily recognisable species such as elephant hippo rhino baboons antelope whales and dolphins to the more challenging family groups dogs cats hyaenas equids pigs civets and genets mongooses rats and mice bats sengis shrews moles hares and rabbits hyrax and squirrels Each entry features Close up photographs showing the entire skull teeth and where available upper and lower jaws Pointers to diagnostic features Average measurement for skull length Short description highlighting main features of each skull and tooth structure Dental formula for teeth in upper and lower jaws A brief introduction with labelled photographs covers anatomy as well as dentition and a quick reference photographic key to the main animal groups appears on the inside front cover *Chapter Resource 17 Biological Communication Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Looking at Vertebrates Elizabeth Rogers, 1986 A Key to the Skulls of North American Mammals Bryan P. Glass, 1951 *Holt Biosources* Holt Rinehart & Winston, 1998 **Keys to Identification of the Orders and Families of Living Mammals of the World** George F. Fisler, 1970 **Pennsylvania Game News**, 1976 Journal of Mammalogy, 1978 News Letter Cranbrook Institute of Science, 1961 **A Guide to the Mammals of Ohio** Jack L. Gottschang, 1981 **Wild Mammals of New England** Alfred J. Godin, 1977 *Illustrated Key to Skulls of Genera of North American Land Mammals* J. Knox Jones, Richard W. Manning, 1992 Complete with glossary and bibliography this book is a must have for every serious student of mammalogy Illustrated with photographs and line drawings this volume uses two or more pairs of contrasting characters in the keys The Ohio Journal of Science, 1982 Includes book reviews and abstracts *Science Series*, 1970

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