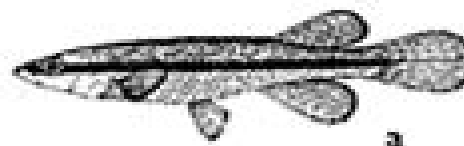
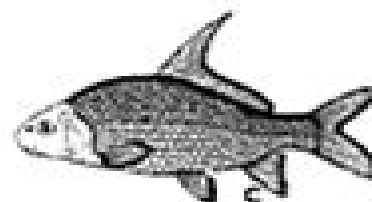


Below are pictures of 10 Illinois fish. See if you can identify them using this simple key.

1. a) Whiskerlike barbels present on head (catfishes)—Go to 2
b) No whiskerlike barbels present on head—Go to 3

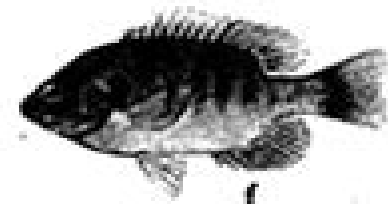


2. a) Caudal fin forked—channel catfish
b) Caudal fin rounded—tadpole madtom

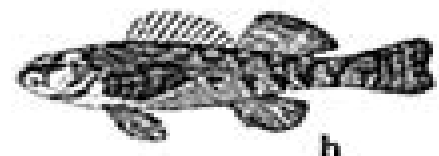
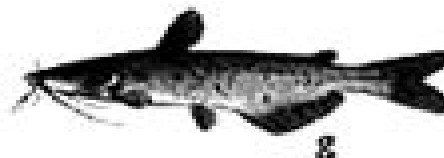


3. a) Mouth facing downward (suckers)—Go to 4
b) Mouth not facing downward—Go to 5

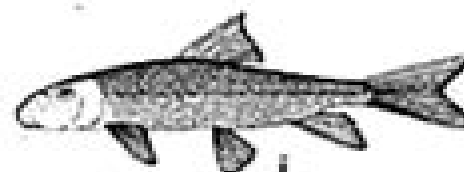
4. a) Front edge of dorsal fin at least 4 times longer than back edge—quillback
b) Front edge of dorsal fin less than 4 times longer than back edge—black redhorse



5. a) Body elongate, more than twice as long as tall—Go to 6
b) Body not elongate, but slab-sided. Not more than twice as long as tall—bluegill



6. a) First five rays of dorsal fin spikelike—brook stickleback
b) First five rays of dorsal fin not spikelike—Go to 7



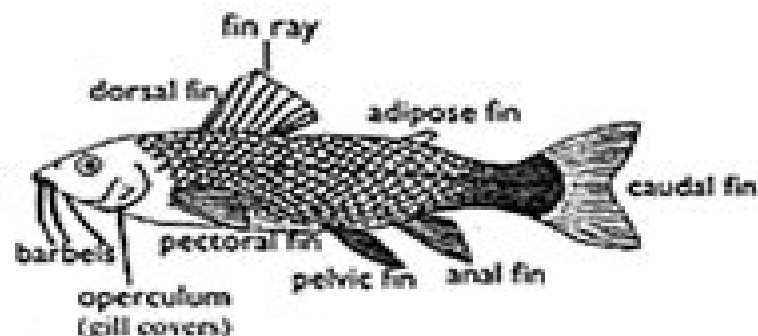
7. a) Two dorsal fins. (darters)—Go to 8
b) Only one dorsal fin—Go to 9

8. a) Bold irregular black stripe on side, like a series of connected blotches—blackside darter
b) No bold black markings on side. Markings are narrow vertical bars—orangemouth darter

9. a) Caudal fin forked—spotfin shiner
b) Caudal fin rounded—blackspotted topminnow

All drawings above taken from P.W. Smith (1979).
The Fishes of Illinois.

Fish Anatomy



Dichotomous Classification Key Freshwater Fish Answers

Routh



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Biology, 1986 Recent Geologic Studies in the San Francisco Bay Area Eugenia Maria Sangines, David W. Andersen, Anna Valetta Buising, 1995 Dichotomous Keys Jackson Martinez, 2020 How do scientists identify an unknown fish In this activity students will utilize a dichotomous key to identify unknown fishes from the Chesapeake Bay and will then characterize their trophic levels based on feeding preferences and adaptations Students will gain an understanding of organism classification trophic level interactions and how fishes may play different trophic roles throughout their lives

Classification and Identification of Freshwater Fishes Chandrashekhar Jalba Hiware, Rajkumar T. Pawar, Jaiprakash M. Gaikwad, Smita R. Sonawane, 2015 *Classification and Identification of Freshwater Fishes* Chandrashekhar Jalba Hiware, Dr R. T. Pawar, Dr J. M. Gaikwad, 2015-01-01 The book entitled Classification and Identification of Freshwater Fishes presents the general aspects of the fish identification and the systematics of fishes collected from different localities of Marathwada region of Maharashtra State The book is organized in four main chapters The first chapter describes the main components of General aspects classification and key for the identification of fishes The second chapter deals with the morphological variations The third chapter presents various measurements and counts used for the diagnosis Finally the fourth chapter is devoted to the Systematics of fishes We hope this book will be beneficial to the students seeking knowledge in fishery science subject at degree post graduate and research level It provides the baseline data for the researchers and the person interested in the fishery sector *Guide to the Identification of Genera of the Fish Order Ophidiiformes with a Tentative Classification of the Order* Daniel M. Cohen, Jørgen G. Nielsen, 1978 Objectives of the paper are to provide dichotomous keys for the identification of ophidiiform genera For each genus a brief account is presented including synonymy a short diagnosis a list of species distribution references when possible comments on relationships and for most an outline drawing The genera are organized into an hierarchical classification which divides them into two suborders Ophidioidei which contains oviparous fishes with a high anterior nostril and Bythitoidei which contains viviparous fishes with a low anterior nostril Ophidioidei is divided into two families Carapidae with a vexillifer larval stage has two subfamilies Pyramodontinae with two genera and Carapinae with four Ophidiidae has four subfamilies Brotulinae with a single genus Brotulotaeniinae new family with a single genus Ophidiinae the cusk eels with eight genera in two tribes and Neobythitinae with 38 genera Epetriodus and Spottobrotula are new genera based on new species from the Indian Ocean in two tribes Bythitoidei contains two families one of which Aphyonidae has five genera characterized by many neotenic features Bythitidae is divided into the free tailed Brosmophycinae with 13 genera in two tribes and Bythitinae with 15 genera **How to Know the Freshwater Fishes** Samuel Eddy, 2012-06-01 Pictured Keys For Identifying All Of The Freshwater Fishes Of The United States And Also Including A Number Of Marine Species Which Often Enter Freshwater How to Know the Freshwater Fishes Samuel Eddy, 2017-05-21 How to Know the Freshwater Fishes first published in 1957 as part of the How

to Know Nature Series provides keys descriptions and for nearly all species a line drawing of all the freshwater fish found in the United States Although some scientific names in this first edition of the book are now out dated the keys illustrations and descriptions make this guide a valuable reference for those wanting to identify and learn more about North American fish

Fishes of the World Joseph S. Nelson, 2007-08-27 Of all the literature I use while preparing field guides for the Food and Agriculture Organization of the United Nations Nelson's *Fishes of the World* is by far the one I refer to most often This book is a standard reference I continue to use it extensively in the ichthyology courses I teach particularly in laboratory sessions Kent E Carpenter Old Dominion University *Fishes of the World* is a unique and essential resource for anyone seriously interested in the diversity and evolution of fishes The family accounts provide quick summaries of current knowledge on all groups of living fishes and many key fossil taxa It is a required work for every student in my laboratory William E Bemis Kingsbury Director of Shoals Marine Laboratory Cornell University Only classics are known by the single name of their author and certainly Nelson's book has for four editions been such a book for all those who seek an accessible up to date readable reference on fish classification Once again Nelson presents a balanced view of the sometimes tumultuous but ever exciting study of the phylogenetic relationships and classification of fishes In doing so Nelson makes an excellent case for organismal biology highlighting the many and varied morphological characters we use to diagnose fish taxa and differentiate among the 515 families of living species Lynne R Parenti Curator of Fishes and Research Scientist National Museum of Natural History Smithsonian Institution *Fishes of the World* Fourth Edition is the updated edition of a true classic in the field A unique presentation of a modern cladistically based classification of all the major living and fossil fish groups this indispensable reference helps scientists and others identify and classify specimens make familial connections understand the evolution of fishes and springboard into further research The taxonomy of fishes presented includes the anatomical characteristics distribution common and scientific names and phylogenetic relationships for all 515 families of living fishes Packed with representative species drawings and information on phylogenetic relationships this informative Fourth Edition features Both fossil and extant species More than 500 illustrations Fully vetted scientific and common names An extensive bibliography

Asian Freshwater Fishes, Taxonomic Classification G. H. Jennings, 1997 *How to Know the Freshwater Fishes* Samuel Eddy, 1957 *Learning About Fishes, Grades 4 - 8* Routh, 2001-12-11 Bring the outside inside the classroom using *Learning about Fishes* for grades 4 and up This 48 page book covers classification appearance adaptations and endangered species It includes questions observation activities crossword puzzles research projects study sheets unit tests a bibliography and an answer key

Field Guide to Freshwater Fish Tony R Smith, 2019-07-17 There are many species of freshwater fishes in America and trying to figure them out is a tough task This book incorporates all of the species and the most common marine fish In this book *Field Guide to Freshwater Fish* is offering a complete guide to the fishes of North America This book provides everything you need to know to identify fish families and species in North America This system

uses arrows on the artwork and italics in the descriptions to make identifying the fish easy Tony R Smith's Field Guide to Freshwater Fish Guide is for beginners **Dichotomous Key to the Common Fishes of Lake Champlain** Matthew F. Witten, 1996 **European Freshwater Fishes** G. Jennings, 1996 **Phylogeny and Classification of Neotropical Fishes** Luiz R. Malabarba, 1998 Neotropical ichthyology an overview Fossils and geological evidence The stage for neotropical fish diversification a history of tropical south american rivers The temporal context for the diversification of neotropical fishes Phylogeny of fossil characiformes and paleobiogeography of the Tremembe formation Sao Paulo Brazil Maastrichtian to early late paleocene freshwater osteichthyes of Bolivia additions and comments Characiformes Higher level phylogenetic concepts within characiforms Ostariophysi a historical review Relationships of the characidiinae and phylogeny of characiform fishes Teleostei ostariophysi Phylogenetic study of the hemiodontidae Ostariophysi characiformes Perspectives about the phylogeny and classification of the characidae Teleostei Characiformes Relationships of the tribes and genera of the glandulocaudinae Ostariophysi characiformes characidae with a description of a New Genus Chrysobrycon Monophyly of the Cheirodontinae characters and major clades Ostariophysi characidae Sperm ultrastructure in characid fishes Teleostei ostariophysi The genus Creagrutus Teleostei Characiformes Characidae monophyly relationships and undetected diversity A phylogenetic analysis of Roestes Gunther and Gilbertulus Eigenmann with a hypothesis on the relationships of the Cynodontidae and Acestrorhynchidae Teleostei Ostariophysi Characiformes Siluriformes Phylogenetic relationships of neotropical siluriformes historical overview and synthesis of hypotheses Monophyly and interrelationships of the Centromochlinae Siluriformes Auchenipteridae Systematics biogeography and the fossil record of the Callichthyidae a review of the available data Phylogenetic relationships of the Loricariidae Siluriformes based on mitochondrial rRNA gene sequences Conflict and resolution impact of new taxa on phylogenetic studies of the neotropical cascudinhos Siluroidei Loricariidae Gymnotiformes The Gymnotiform Eels of tropical America a history of classification and phylogeny of the South American electric Knifefishes Teleostei Ostariophysi Siluriphysi Phylogenetic systematics of Gymnotiformes with diagnoses of 58 clades a review of available data The phylogenetic position of the South America Electric Fish genera Sternophygus and Archolaemus Ostariophysi Gymnotiformes according to 12s and 16s mitochondrial DNA sequences Perciformes A phylogeny and classification of the South American Cichlidae Teleostei Perciformes Molecular phylogeny of neotropical cichlids the relationships of Cichlasomines and heronines Mitochondrial phylogenetics biogeography and evolution of parental care and mating systems in Gymnogeophagus Perciformes Cichlidae Atherinomorpha Phylogenetic systematics and historical biogeography of the neotropical silverside family Atheronopsidae Teleostei Atheriniformes Phylogeny and classification of the Cyprinodontiformes Euteleostei Atherinomorpha a reappraisal Phylogeny and classification of the Anablepidae Teleostei Cyprinodontiformes Cytogenetic markers Cytogenetic markers in neotropical freshwater fishes **Freshwater Fish Identification Color Slide Script** Ohio Agricultural Education Curriculum Materials Service, Penny Collins, 1995-05-01 This

slide series provides an overview of 68 selected species of freshwater tropical aquarium fish The families represented fall into six main groups and one miscellaneous assortment **Freshwater Fishes of Kentucky** Quick Reference Publishing, 2015-10-15

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