

Unit 5: Classification

Study Guide Answers

STL.1. Obtain, evaluate, and communicate information to investigate the diversity of living organisms and how they can be compared scientifically.

Vocabulary: Complete the following chart using the definitions obtained in class.

Word	Definition
Species	A group of organisms with similar characteristics who are able to breed and produce a fertile offspring
Diversity	Variation of living things present in a particular ecosystem
Taxonomy	The branch of science that deals with classification of organisms
Scientific Name	A name used by scientists that consists of a genus and species
Dichotomous Key	A chart used to identify organisms based on a series of choices
Classification	Sorting something according to similar characteristics; another term for taxonomy
Kingdom	The most broad level of classification; made up of smaller groups called phylum
Binomial Nomenclature	A two name system with the first name referring to genus and the second name referring to species; scientific name
Carolus Linnaeus	The "father" of taxonomy; created the binomial nomenclature
Genus	A classification grouping, the first part of the scientific name

- The language used for scientific name is
 - Latin
- When constructing a dichotomous key, which characteristics do you look for?
 - You look for physical characteristics.
- Compare and contrast animals and plants
 - Animals: multicellular, autotrophs, cannot move, eukaryotic
 - Plants: Multicellular, heterotrophs, can move, eukaryotic
- Sponges look much like plants, but are classified as animals. Why is this?
 - Sponges are heterotrophic (consume food) and not autotrophs like plants
- List the levels of hierarchy from largest to smallest.
 - Domain → Kingdom → Phylum → Class → Order → Family → Genus → Species
Remember the mnemonic device: "Do Keep Ponds Clean Or Frogs Get Sick!"

ANSWERS TO THE "MAKE YOUR OWN" DICHOTOMOUS KEY WILL VARY!

PLEASE SEE YOUR TEACHER IF YOU HAVE QUESTIONS ☺

Modern Biology Classification Study Guide Answers

**United States. Congress. House.
Committee on Science. Subcommittee
on Energy and Environment**

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Oxford IB Study Guides: Biology for the IB Diploma Andrew Allott, 2014-10-02 This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus ensuring students develop a clear understanding of all the crucial topics at SL and HL Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding exam preparation material is integrated to build student confidence and assessment potential Directly linked to the Oxford Biology Course Book to extend and sharpen comprehension this book supports maximum achievement in the course and assessment Fully comprehensive and matched to the new 2014 syllabus Concise and focused approach simplifies complex ideas building truly confident understanding Clear and explanatory style uses plenty of visuals to make each concept accessible easing comprehension Build a strong foundation of assessment skills strengthening potential with integrated exam questions Develop assessment confidence drawing on thorough assessment support and advice Clear and straightforward language

Resources in Education, 1999 New England Journal of Education Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1893 Fiscal Year 2001 Budget Authorization Request United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment, 2001 *Research in Education*, 1974 Modern Biology Towle, Albert Towle, 1991 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress, 1968

Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (India 2012) held in Visakhapatnam, India, January 2012 Suresh Chandra Satapathy, P S Avadhani, Ajith Abraham, 2011-12-14 This volume contains the papers presented at INDIA 2012 International conference on Information system Design and Intelligent Applications held on January 5 7 2012 in Vishakhapatnam India This conference was organized by Computer Society of India CSI Vishakhapatnam chapter well supported by Vishakhapatnam Steel RINL Govt of India It contains 108 papers contributed by authors from six different countries across four continents These research papers mainly focused on intelligent applications and various system design issues The papers cover a wide range of topics of computer science and information technology discipline ranging from image processing data base application data mining grid and cloud computing bioinformatics among many others The various intelligent tools like swarm intelligence artificial intelligence evolutionary algorithms bio inspired algorithms have been applied in different papers for solving various challenging IT related problems A Classified Catalogue of School, College, Classical, Training, and General Educational Works in Use in Great Britain, Etc Walter LOW, 1871 **Technical Report NAVTRADEV CEN 269-7**, 1953

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