

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 ☺

Biology Classification Study Guide Answers

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Biology I Alfred E. Zietlow, 1963 *Life: The Science of Biology Study Guide* William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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