

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

Jessica J Manson



Biology Classification Study Guide Answers:

The Enigmatic Realm of **Biology Classification Study Guide Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Biology Classification Study Guide Answers** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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