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Chapter 17 Vocabulary Review

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| --- | --- |
| **Across**  **1.** inherited morphological or biochemical feature that varies among species and can be used to determine patterns of descent.  **2.** taxonomic term used instead of phylum to group related classes of plants and bacteria.  **4.** evolutionary history of a species.  **10.** taxonomic method that models evolutionary relationships based on shared derived characters and phylogenetic trees.  **15.** branch of biology that identifies, names, and classifies species based on their morphology and behavior.  **16.** unicellular or multicellular eukaryote that is stationary, absorbs nutrients from organic materials in the environment, and has cell walls that contain chitin.  **17.** taxonomic group of similar, related genera that is larger than a genus and smaller than an order.  **18.** taxonomic group of one or more kingdoms.  **19.** prokaryotes with peptidoglycan-containing cell walls.  **20.** Linnaeus's system of naming organisms, which gives a scientific two-word Latin name to each species--the first part is the genus name and the second is the specific epithet. | **Down**  **3.** taxonomic group of closely related species with a common ancestor.  **5.** model that uses comparisons of DNA sequences to estimate phylogeny and rate of evolutionary change.  **6.** prokaryotes whose cell walls do not contain peptidoglycan.  **7.** grouping of organisms or objects based on a set of criteria that helps organize, communicate, and retain information.  **8.** taxonomic group that contains one or more related orders.  **9.** taxonomic group of related phyla or divisions.  **11.** diagram with branches that represents the hypothesized phylogeny or evolution of a species or group; uses bioinformatics, morphological studies, and information from DNA studies.  **12.** unicellular, multicellular, or colonial eukaryote whose cell walls may contain cellulose; can be plantlike, animal-like, or funguslike.  **13.** taxonomic group of related classes.  **14.** named group of organisms, such as a phylum, genus, or species. |

   genus       taxon       family       binomial nomenclature       archaebacteria       character       cladistics       cladogram       class       classification       division       domain       eubacteria       fungus       kingdom       molecular clock       phylogeny       phylum       protist       taxonomy