**Classification Vocab**

|  |  |  |
| --- | --- | --- |
| **Word** | **Definition** | **Picture Example** |
| **Domain** |  |  |
|  | all living things in Domain are then divided into Kingdoms, this level of classification is more specific than Domain and the organisms in each Kingdom share characteristics and are more alike than organisms from other Kingdoms, this level is divided into five categories: Animal, Plant, Protista, Fungi, and Monera |  |
|  | a Kingdom is broken down into Phyla or Phylum, this level of classification is below and more specific than Kingdom, the organisms in each Phylum have some similarities to each other that suggest a common ancestor |  |
| **Class** |  |  |
| **Order** |  |  |
|  | organisms in each Order are further broken down into Families, this level is more specific than Order and the organisms in the same Family have more characteristics in common than organisms in other Families |  |
|  | organisms in each Family are broken down into Genus, this level is more specific than Family and is the first part of the scientific name for an organism, the organisms in the same Genus share more similarities with organisms in the same Genus than organisms in another Genus |  |
|  | organisms in each Genus are further broken down by Species, this is the MOST specific level of classification, this is the second part of the scientific name for an organism, this is a group of organisms that are closely related and can mate to produce fertile offspring |  |
| **Classification** |  |  |
| **Taxonomy** |  |  |
|  | a system of naming in which each species receives a two part name, the first part identifies the genus the organism belongs to and is always capitalized and the second part identifies the species itself and is not capitalized, this is also referred to as the organisms scientific name and is *italicized* |  |
| **Dichotomous Key** |  |  |
|  | kingdom made up of complex, multicellular organisms that lack cell walls, can usually move around, and quickly respond to their environment, commonly called animals and depend on other organisms from other kingdoms |  |
| **Archaea** |  |  |
|  | kingdom made up of non-green eukaryotic organisms that have no means of movement, reproduce by using spores, and get food by breaking down substances in their surroundings and absorbing the nutrients, examples include molds and mushrooms |  |
| **Bacteria** |  |  |
| **Plants** |  |  |
|  | kingdom of mostly single-celled or simple multicellular eukaryotic organisms that are different from plants, animals, and fungi, also called protists, examples include protozoans, slime mold, and algae |  |
|  | a branching diagram that shows characteristics between organisms, each characteristic on the cladogram is shared by the animals to the right of the characteristic |  |

**List the 8 Levels of Classification in order from broadest to most specific and create a mnemonic device to help you remember the order:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Example of a Mnemonic Device for the planets**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **in the Solar System:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ My Very Eager Mother Just Served Us Nachos

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ M=Mercury V=Venus

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E=Earth M=Mars

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ J=Jupiter S=Saturn

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ U=Uranus N=Neptune

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_