**Classification Name: \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **What is Classification?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the arrangement of organism into orderly \_\_\_\_\_\_\_\_\_\_\_\_\_ based on their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Classification is also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are scientists that identify & name organisms**

1. **Benefits of Classifying**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ names organisms**
* **Prevents \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that aren’t really fish**
* **Uses \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Latin or some Greek) for all names**
1. **Early Taxonomists**
* **2000 years ago, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was the first taxonomist**
* **Aristotle divided organism into \_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_**
* **He \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ them by their \_\_\_\_\_\_\_\_\_\_\_\_\_ ------ land, sea or air dwellers**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ subdivided into \_\_\_\_\_\_\_\_\_\_\_ , shrubs and trees.**
* **John Ray, a \_\_\_\_\_\_\_\_\_\_\_\_, was the first to use \_\_\_\_\_\_\_\_\_\_\_ for naming**
* **His \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ were \_\_\_\_\_\_ \_\_\_\_\_\_\_ descriptions telling everything about the plant**
1. **Carolus Linnaeus**
* **18th century \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Classified organisms by their \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Developed \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ still used today**
* **Called the “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**
* **Developed the modern system of naming known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_ name (Genus & species)**
1. **Standardized Naming**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ used**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Latin or Greek**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in print**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ genus, but NOT species**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when writing**
1. **Classification Groups**
* **\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_ -plural) is a category into which related organisms are placed**
* **There is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of groups (taxa) from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to most \_\_\_\_\_\_\_\_\_\_\_\_**
* **Domain, \_\_\_\_\_\_\_\_\_\_\_, Phylum, \_\_\_\_\_\_\_\_\_\_, Order, \_\_\_\_\_\_\_\_\_\_, Genus, species**
1. **Kingdom ----Archaebacteria**
* **Singled \_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Live in \_\_\_\_\_\_\_\_\_ environments**
* **Found in**

**--\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Treatment Plants**

**--\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_ Vents**

**-- Hot \_\_\_\_\_\_\_\_\_\_\_\_\_ or Geysers that are acid**

**-- Very \_\_\_\_\_\_\_\_\_\_\_ water (Dead Sea; Great Salt Lake)**

**VIII. Kingdom ----Eubacteria**

* **Some may cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Found in \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ except harsh ones**
* **Important \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for environment**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ important in making cottage cheese, yogurt, buttermilk, etc.**

 **IX. Kingdom ---- Protista**

* **Most are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Some are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Some are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, while others are \_\_\_\_\_\_\_\_\_\_\_**
* **Aquatic**

**X. Kingdom ----Fungi**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ except yeast**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ heterotrophs (digest food outside their body & then absorb it)**
* **Cell walls made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**XI. Kingdom ----- Plantae**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Absorb \_\_\_\_\_\_\_\_\_\_\_\_\_ to make glucose –Photosynthesis**
* **Cell walls made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**XII. Kingdom ---- Animalia**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (consume food & digest it inside their bodies)**
* **Feed on \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_**