**Taxonomy Study Guide**

**Vocabulary**

Taxonomy Prokaryote Phylum Genus

Autotroph Eukaryote Class Species

Heterotroph Domain Order

Binomial nomenclature Kingdom Family

1. In bionomial nomenclature:  
   * Which word refers to the organism’s genus? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * Which word refers to the organism’s species? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * What language is used (English, French, etc.)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the order of classification, in order from largest to smallest?

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which of the following organisms are more closely related? How do you know?

* *Canis lupus*
* *Felis silvestris*
* *Musca domestica*
* *Canis familiaris*

1. If organisms belong to the same family:

* Can they belong to the same genus? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Can they belong to the same order? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Fill in the chart below***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Domain | **Kingdom** | **Cell Type** | **# Cells** | **Nutrition** | **Other** |
| **Bacteria** |  |  |  |  |  |
| **Archaea** |  |  |  |  |  |
| **Eukarya** |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* What are the three domains?
* Know the characteristics of each Kingdom.
* For example: Which kingdom has organisms that are multicellular autotrophs that can’t move on their own? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Use the dichotomous key below to scientifically identify each creature.***

