Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Classification Review**

**VOCABULARY YOU MUST KNOW!**

\*Classification, Taxonomy, prokaryote, eukaryote, unicellular, multicellular, autotroph, heterotroph, motile/non-motile, dichotomous key, binomial nomenclature, manipulated variable, response variable, hypothesis\*

1. Fill in the Kingdom Characteristics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Archaebacteria | Eubacteria | Protista | Fungi | Plantae | Animalia |
| Cell Type |  |  |  |  |  |  |
| Organization |  |  |  |  |  |  |
| Nutrition |  |  |  |  |  |  |
| Locomotion(Motile/Non-Motile) |  |  |  |  |  |  |

1. List the 8 Characteristics of living organisms.
2. Define Binomial Nomenclature. What language do we use?

How many rules apply? \_\_\_\_\_\_\_\_ List the rules below.

1. How many levels of Classification are in Carl Von Linne’s (Carl Linnaeus) taxonomy? \_\_\_\_\_
2. List the levels from broadest to most specific.
3. Which levels do we use in Binomial Nomenclature.
4. Why is it important/beneficial to have an established taxonomy system in place?
5. Define and list the Domains.
6. Explain the difference between prokaryotes and eukaryotes. List the kingdoms for each cell type.
7. Define Autotroph.
8. Define Heterotroph



1. Look at the graph above, Identify the manipulated and response variables.