**Taxonomy: Life’s Filing System (Video Worksheet)**

Every living thing on Earth is related to .

The phylogenetic tree (Tree of Life) – List the categories:

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How many known species are there?

How many could there be?

Why the discrepancy?

**Carl Linnaeus**

Where was he born? What was his career?

He devoted himself to the study of .

**Morphology** – the method of classification based on

Define:

***Analogous traits*** -

***Homologous traits*** -

How many plants and animals did he classify?

Animals –

Plants –

What was his moto?

Define:

***Taxa*** -

***Binomial nomenclature*** -

What language is the language of classification?

List the three categories under domain and identify each as prokaryote or eukaryote:

Domain

Define:

***Prokaryote*** -

***Eukaryote -***

List the 4 categories under Domain Eukarya and identify each as autotrophs, heterotrophs, or chemotrophs.

Eukarya

Define:

***Autotroph*** -

***Heterotroph*** -

***Chemotroph*** -

What is a cat’s taxonomic categories?

Domain – Class - Genus -

Kingdom – Order - Species -

Phylum – Family -

What is a cat’s binomial nomenclature name?