Taxonomy

Taxonomy:_____

_____ are scientists who study classifying animals.

_____ is a category into which _____ organisms can be placed.

Reasons to classify:

• Show _____ relationships

• Accurately and uniformly _____ organisms

• Prevents _____ names

Early Taxonomy

_____ was the first taxonomist.

Divided into _____, _____, and _____ dwellers.

_____ was the first to use _____ for naming.

_____developed the modern system of naming called _____

_____.

Binomial Nomenclature

• A two word naming system (_____).

• Names should always be _____.

• Always capitalize _____, but write the _____ in lower case.

    Example: *Homo sapiens*

Taxonomic Categories

• The taxonomic categories are used to sort animals as you move down the tree of life.

• Linnaeus placed organisms into related groups called _____ based on their

   _____.

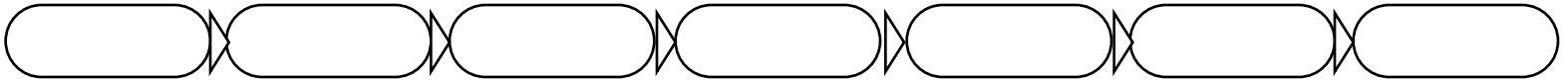We sort into six different kingdoms:

1)   2)   3)

4)   5)   6)

Domains

With genetic sequencing now available, we now separate all _____ into three

broad categories called _____.

   _____: chemosynthetic bacteria

   _____: all other bacteria

   _____: all eukaryotic