Name: | Date:

Period: | Do Now# 2.3 | Homework# 2.3

Aim: How do we use the DICHOTOMOUS KEY in identifying organisms?

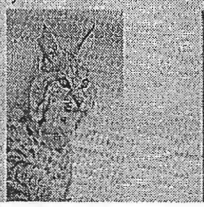
Vocabulary: (6)

1. Species
2. Binomial nomenclature
3. Scientific name
4. Genus
5. Dichotomous Key
6. universal

What are the different levels in classifying organisms?

TABLE 18-1 Classification Hierarchy of Organisms

	Bobcat	Lion
Kingdom	Animalia	Animalia
Phylum/division	Chordata	Chordata
Class	Mammalia	Mammalia
Order	Carnivora	Carnivora
Family	Felidae	Felidae
Genus	*Lynx*	*Panthera*
Species	*Lynx rufus*	*Panthera leo*



Kingdom
Phylum
Class
Order
Family
Genus
Species

- Use a MNEMONIC to remember the correct order:
  King Phillip Came Over From Germany Swimming

Who is the father of Taxonomy?

- Carolus Linnaeus
- Described organisms with 2 word names.
- Developed Binomial nomenclature.
  (*2 names*)
- 2 names is also called as Scientific **name.**
- Genus and Species.

Examples of Scientific names:

1. Homo sapiens
2. Canis lupus
3. Felis domesticus
4. Pan pan
5. Eunectes murinus

Questions/Main Ideas:	**Notes:**
Why do scientists use Scientific Names?	1. Much easier. 2. Has 2 names only. 3. Universal
How do taxonomists use the **Dichotomous Key**?	• Identifying unknown organisms by observing their characteristics. • Always have 2 choices.

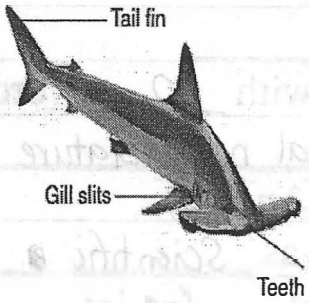
Examples of a DICHOTOMOUS KEY:

ACTIVITY 1:

Dichotomous Key

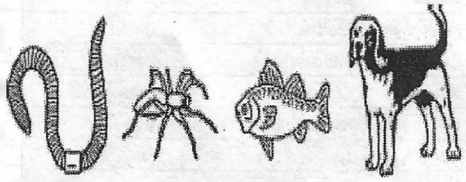
1. a. tail fins are horizontal.....go to 2
   b. tail fins are vertical.....go to 3
2. a. has teeth or tusk.....go to 4
   b. has no teeth.....*Balaena mysticetus*
3. a. has gill slits behind mouth.....go to 5
   b. has no gill slits.....*Lepidosiren paradoxa*
4. a. black with white underside.....*Orcinus orca*
   b. tusk, gray with dark spots.....*Monodon monoceros*
5. a. head is hammer shaped.....*Sphyrna mokarran*
   b. tail fins are half the body length.....*Alopias vulpinus*

Use the dichotomous key to identify the scientific name of the organism represented below. [1]



ACTIVITY 2:

2. Fill in all of the blanks in parts 2 and 3 of the dichotomous key shown in the accompanying diagram and chart, so that it contains information that could be used to identify the four animals shown. [2]



Dichotomous Key

1. a. Legs present.....Go to 2
   b. Legs not present.....Go to 3

	Characteristic	Organism
2. a.	4 legs	dog
b.	8 legs	spider

Name of Shark:

Sphyrna mokarran

Summary: 2 points

In the scientific name Periplaneta americana, Periplaneta is the _____ and the species is _____. Scientific names are important because _____

_____

Dichotomous key is used to _____