## March $2^{n i n}$

SOn your blue warm-up sheet identify each of the following as lytic or lysogenic

1. Symptoms within 3-days
2. Example is HIV
3. Viral DNA is incorporated into cell's DNA
4. Virus DNA hijacks the cell to build new viruses
5. Virus is activated by a signal
6. Cell will burst and release viruses
7. Example is common cold

- Get your projects out and ready to turn in, you will have a quiz over the information!


## Class Classification

- We will be making a flow chart for identifying the class based on traits
- You will record the flow chart as we make it in your notebook.
- Lets start by splitting the class into two easy groups
- Each group will then continue splitting their group until everyone is alone.
- You have 5 minutes to split yourselves




## TAKONOMY NOTES [PG. 119]

08A Define taxonomy and recognize

 of grouping organisms based on their similarities and assigning them a universal scientific name

- Taxon- a group or level of organization


GENUS Ursus


SPECIES Ursus arctos

## 2. What io you call this animal?





## Scientific Name Rules

- Always Genus species.
- Genus is capitalized, species is lower case
- Always written in italics (or underlined if handwritten)
- Ex. Homo sapiens, Panthera leo










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6. Which other species is the dog, Canis familiaris, most closely related to?


## Kingoom <br> Animalia <br> 

PHYLUM
Chordata

CLASS
Mammalia

2

FAMIIY
Canidat


## Practice!

## Who is most closely related?

Which Scientifc names are correct?

1. Carnivora felidae
2. felis Catus
3. Panthera leo
4. Homo sapiens
5. Animalia leo
6. Sapiens homonidae

| Common <br> name | Human | Lion | House Cat |
| :---: | :---: | :---: | :---: |
| Kingdom | Animalia | Animalia | Animalia |
| Phylum | Chordata | Chordata | Chordata |
| Class | Mammalia | Mammalia | Mammalia |
| Order | Primate | Carnivora | Carnivora |
| Family | Homonidae | Felidae | Felidae |
| Genus | Homo | Panthera | Felis |
| species | sapiens | leo | catus |

7. Felis catus


## 7. CLABSIMEITION IS BASED ON GENETIO MiMTOMILI SIMILARITIES Cladogram - diagram that shows evolutionary relationships

 placed in groups that show how things may have evolved.



| How should we classify these oroanisms? |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & \text { Sizard } \\ & \sum I D \\ & \text { ID } \end{aligned}$ | $\begin{array}{\|c\|} \text { Pigeon } \\ \hline \end{array}$ |  |  |
|  | Hagfish | Perch | Salaman | Lizard | Pigeon | Mouse | Chimp |
| Jaws |  |  |  |  |  |  |  |
| Lungs |  |  |  |  |  |  |  |
| Claws/ <br> Nails |  |  |  |  |  |  |  |
| Feather |  |  |  |  |  |  |  |
| Fur/ glands |  |  |  |  |  |  |  |



## How can you identify an organism you find? <br> TaxOnomic (Dichotomous) Key = series of paired statements describing characteristics of organisms




## Dichotomous Key for Leaves

1. Compound or simple leaf

1a) Compound leaf (leaf divided into leaflets)
b) Simple leat (l..................................... to step 2 ,
2. Arrangement of leaflets

2a) Palmate arrangement of leaflets (leaflets all attached at one central point)
$\qquad$
2b) Pinnate arrangement of leaflets (leaflets attached at several points)
$\qquad$ go to step 3
3. Leaflet shape

3a) Leaflets taper to pointed tips
$\qquad$
3b) Oval leaflets with rounded tips
$\qquad$
4. Arrangement of leaf veins

4a) Veins branch out from one central point
$\qquad$
4b) Veins branch off main vein in the middle of the leaf. $\qquad$ go to step 6
5. Overall shape of leat

5a) Leat is heart-shaped $\qquad$ Cercis (redbud)
5b) Leaf is star-shaped
.........................Liquidambar (sweet gum)
6. Appearance of leat edge

6a) Leaf has toothed (jagged) edge
.............................................Betula (birch)
6b) Leaf has untoothed (smooth) edge ..................................Magnolia (magnolia)


## Make your Own Dichotomous Key

Split your objects into two groups based on their physical characteristics- This will be questions 1a and 1b (It will help to make a spider chart first!)
ex: 1a- Object is spherical........ Goto 2
1b- Object is disc shaped.....Goto 4

- You will continue to split your objects until each of them is alone- Be sure to give each of your objects a scientific name
- Have someone at your table try and key out of of your objects, were the able to? Have them sign your key
- Show your completed key to Mrs. FN before you do anything with your objects.

