



CLASSIFICATION

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TAXONOMY



- Carolus Linnaeus
- Organized by characteristics
- Science of identifying, classifying, and naming living things

Grizzly bear Black bear Giant panda Red fox Abert squirrel Coral snake Sea star



KINGDOM Animalia



PHYLUM Chordata



CLASS Mammalia



ORDER Carnivora



FAMILY Ursidae



GENUS Ursus

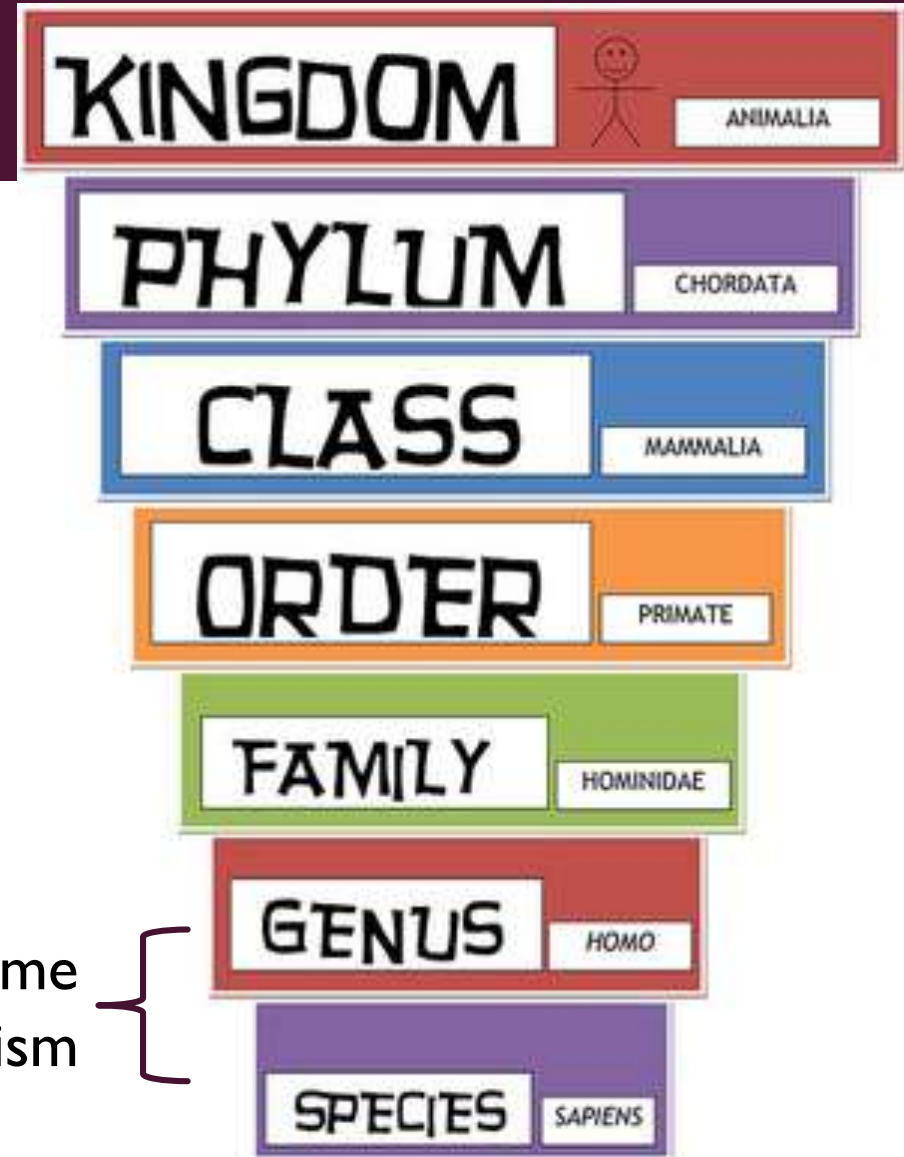


SPECIES *Ursus arctos*

ORGANIZING THE ORGANISMS

- King
- Philip
- Came
- Over
- For
- Ginger
- Snaps

Used to make a scientific name
for the organism



SCIENTIFIC NAMES

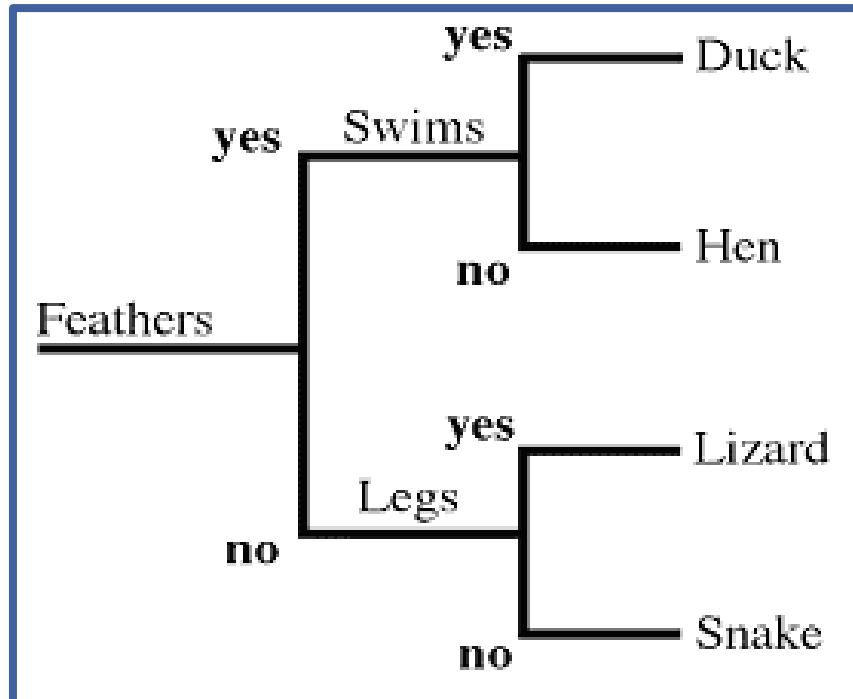
- Always the same for an organism, no matter how many other common names it has
- *Genus species*
- First is capitalized, second isn't
- ALWAYS italicized
- Ex.
 - *Felis leo* (lion)
 - *Felis domesticus* (cat)



So scientists who speak different languages know they're talking about the same organism

DICHOTOMOUS KEY

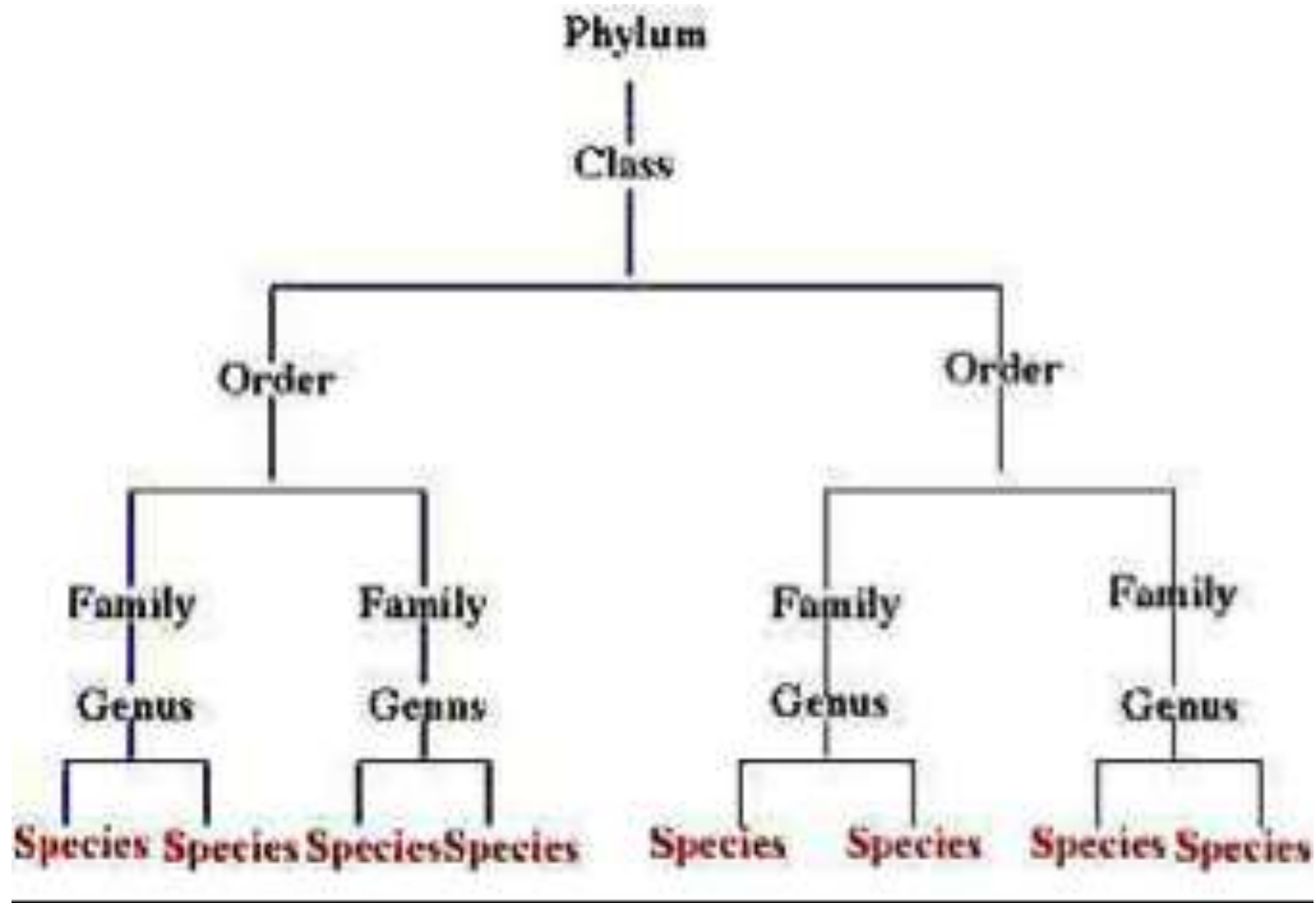
- Used to help classify unknown organisms



Key to Writing Implements

1. Writes with ink.....go to 2
1. Writes with graphite.....go to 4
2. Writing tip is metal.....go to 3
2. Writing tip is felt.....marker
3. Writing tip contains a ball.....ball point pen
3. Writing tip does not contain a ball...calligraphy pen
4. Body is made of wood.....regular pencil
4. Body is not made of wood.....mechanical

Figure 2





SHOE CLASSIFICATION ACTIVITY



SIX KINGDOMS

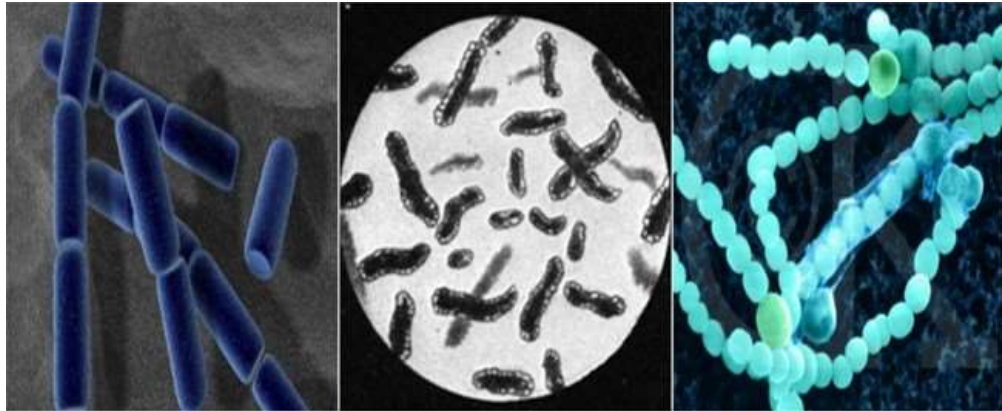
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TWO KINGDOMS OF BACTERIA

Archaeobacteria

- “ancient”
- Live in extreme environments



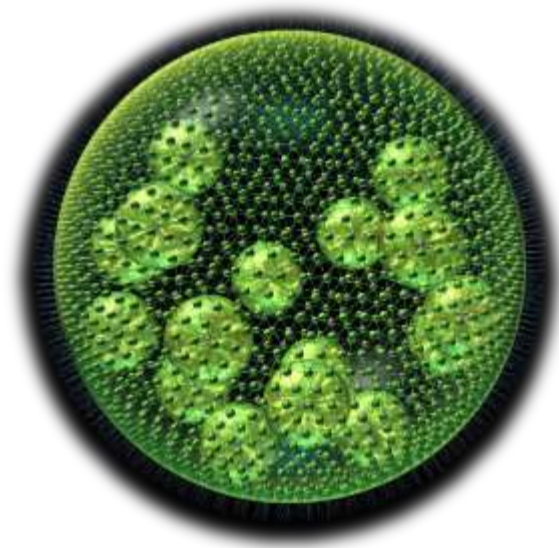
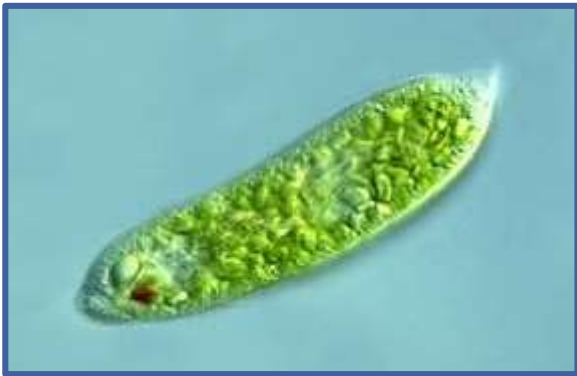
Eubacteria

- Most types of bacteria
- Live in soil/water



Prokaryotes- no nucleus

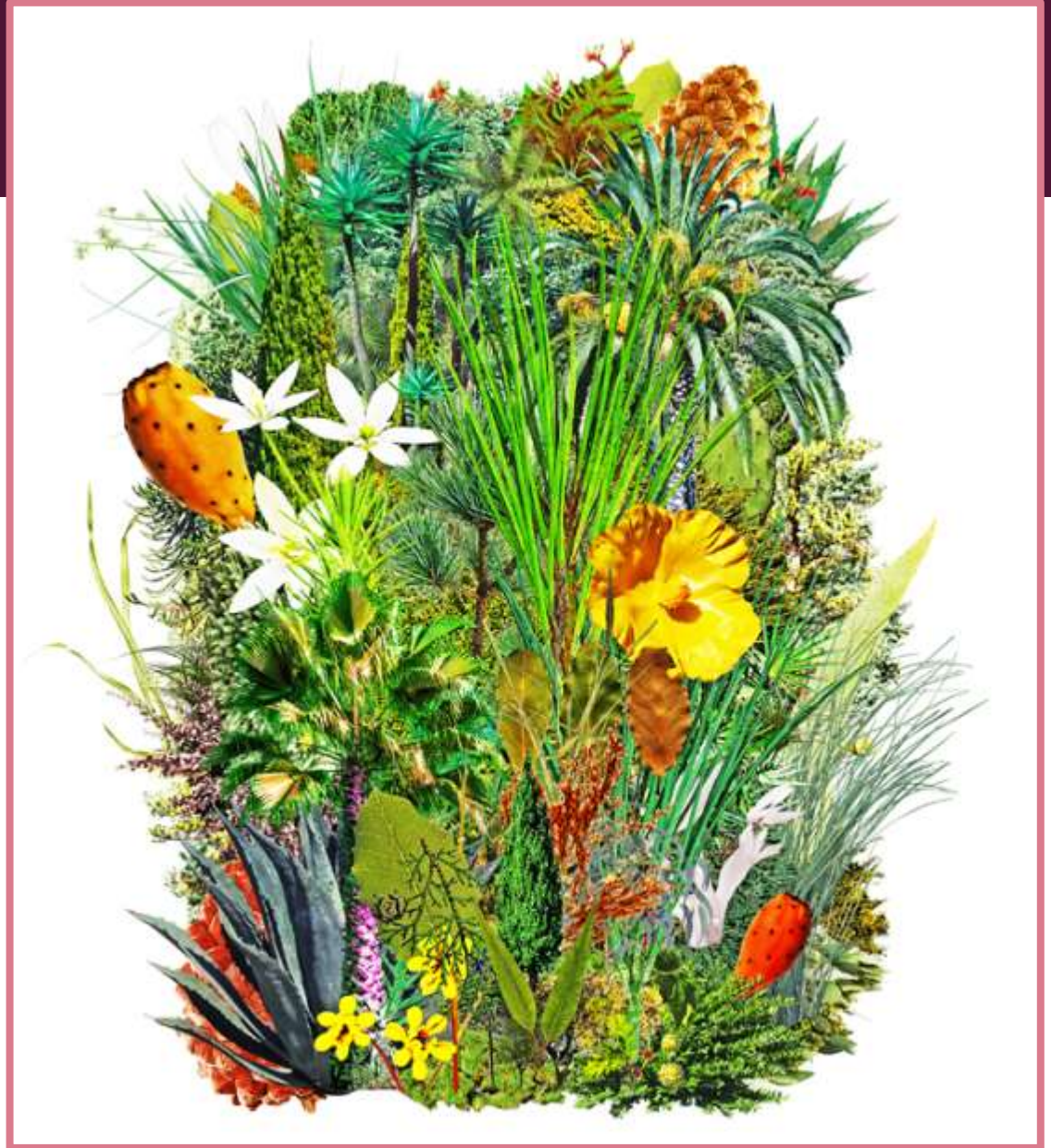
KINGDOM PROTISTA



- Have a nucleus (eukaryotes)
- Can be single-celled or multicellular
- Contains all eukaryotes that aren't plants, animals, or fungi

KINGDOM PLANTAE

- Usually green
- Use the sun's energy to make sugar (photosynthesis)



KINGDOM FUNGI

- Used to be classified as plants
- DON'T do photosynthesis
- DON'T eat food
- Absorb nutrients from surroundings after breaking them down with digestive juices



