



Can you think of the different groups of living things?

Taxonomy

- Taxonomy is the classification system used for living things based on their shared characteristics
- Our taxonomy system has 7 different levels (**taxons**)
 - ° Kingdom
 - Phylum
 - ° Class
 - Order
 - Family
 - Genus
 - Species



Taxonomy As you go down the list of taxa, the groups get smaller and more specific Let's take a look at the different Kingdoms!



Animals











Animals •Members of kingdom Animalia: •Are multicellular •Have cells with a nucleus Can move on their own Feed on other living things (plants, animals, etc) •Reproduce sexually

Plants







Plants

•Members of kingdom **Plantae**:

- Are multicellular
- Have cells with a nucleus
- Cannot move on their own
- Get food from sun
 - Absorb solar energy (photosynthesis)
- Reproduce sexually and asexually
 - Use seeds

Fungi





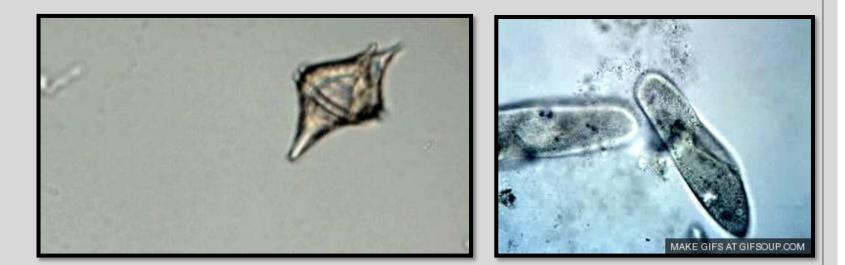
Fungi

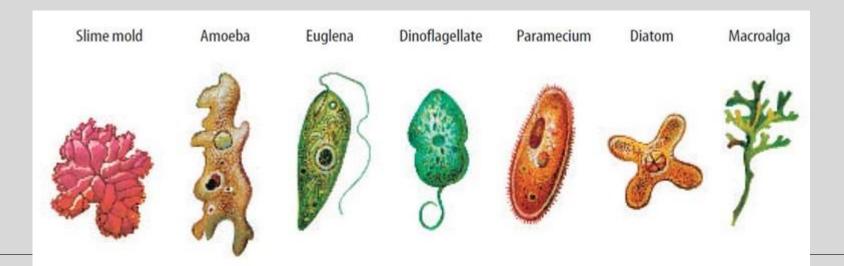
•Members of kingdom **Fungi**:

- Are multicellular
- Have cells with a nucleus
- Cannot move on their own
- Absorb nutrients
 - They are decomposers that secrete chemicals that break down organic matter and then they absorb the nutrients
- Reproduce sexually and asexually
 - Use spores

Protists







Protists

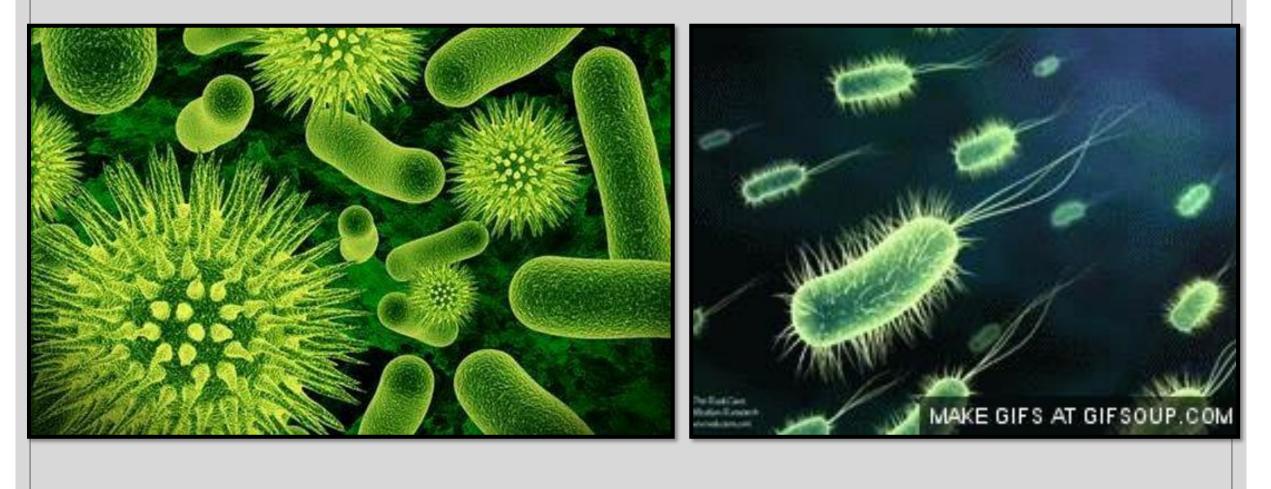
•Members of kingdom **Protista**:

- Are unicellular (single cell)
- Have cells with a nucleus
- Can move on their own

 Can either absorb energy through sunlight (photosynthesis) or feed on other singlecelled organisms

Reproduce sexually and asexually

Bacteria



Bacteria

- •Members of kingdom **Monera** (Bacteria):
 - Are unicellular (single cell)
 - No nucleus
 - Can move on their own
 - Feed in many different ways:
 - Some absorb sunlight, some are decomposers, others eat other organisms!
 - Reproduce mostly asexually (binary fission)
 - Can survive in extreme climates!

Bacteria

The Kingdom Monera is actually divided into two groups:
Eubacteria
Archaebacteria

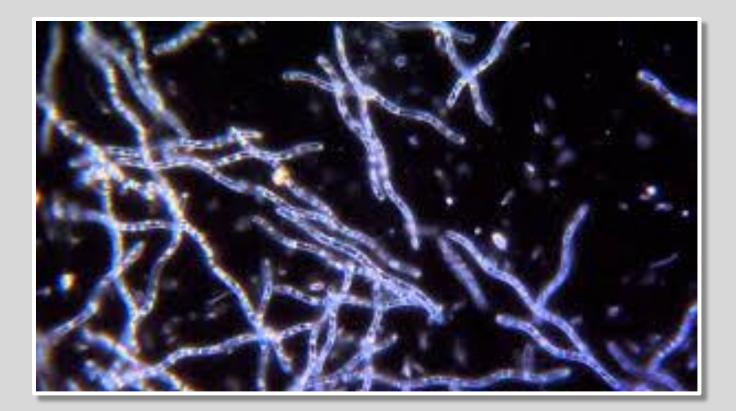
Let's put your new knowledge to the test!



Animalia!



Bacteria!



Plantae!









Protista!



Fungi!

Animalia!



Workbook

p.86-87(skip questions #5 and #6 for now)







Yes!





Yes!





Nope!





Yes!





Nope!

How can you tell if two organisms are part of the same species?

Species

 To be considered part of the same species, two organisms must meet the following criteria
 Look similar

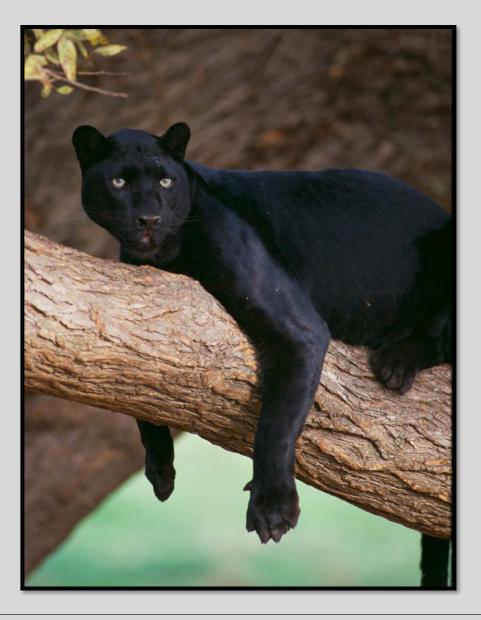
2.A male and female can produce viable offspring together

3. The offspring produced are also able to reproduce

4.**would be able to come together naturally**



VS



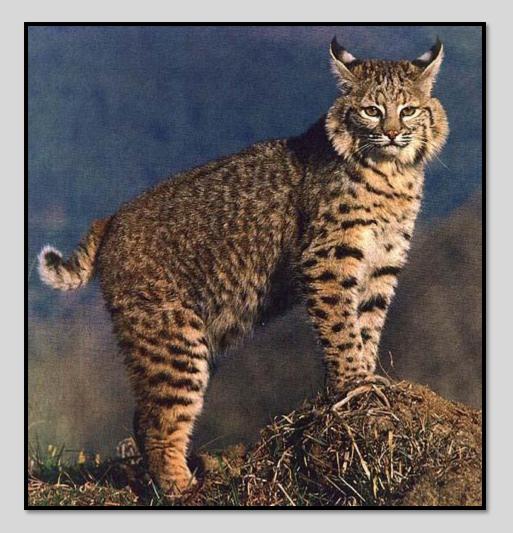
Example **Black Panther** Jaguar Fur colour Tawny yellow with Black brown spots Adult size 1.12-1.85 m 1.12-1.85 m Adult mass 56-96 kg 56-96 kg 12-15 years Lifespan in wild 12-15 years Can reproduce together and produce Reproduction viable offspring



Same species!



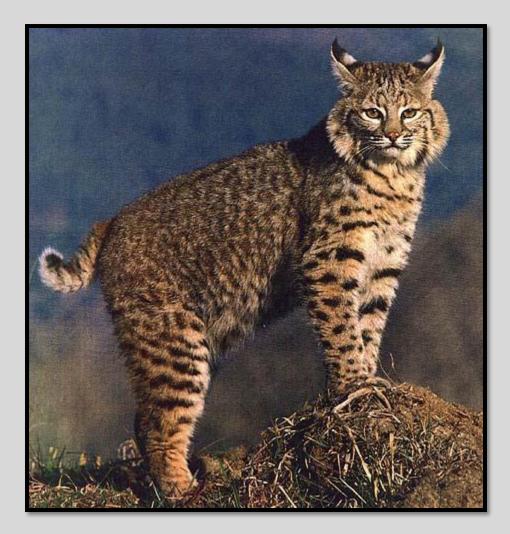
VS



Example		
	Canadian Lynx	Bobcat
Fur colour	Light brown/grey fur with light black spots	Light brown/grey fur with light black spots
Adult size	75-110 cm	47.5-125 cm
Adult mass	6-17 kg	6.4-18.3 kg
Lifespan in wild	10-16 years	7-10 years
Reproduction	Can reproduce together but offspring are sterile	



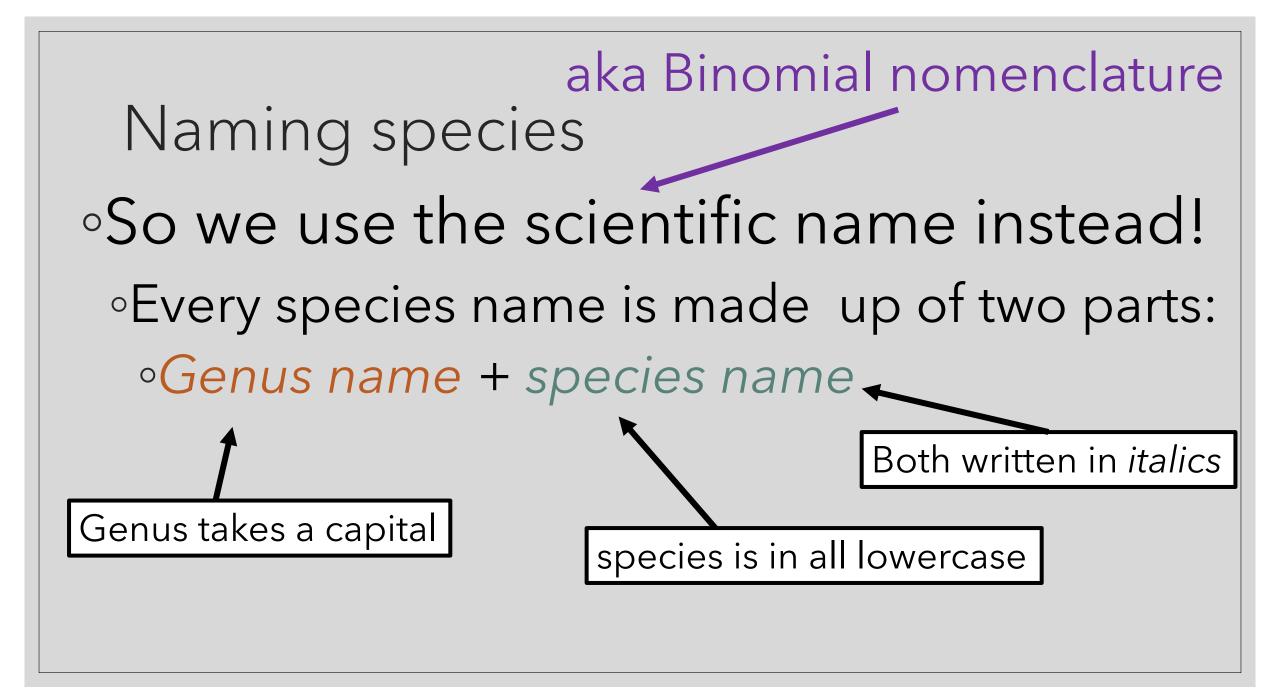
Different species!

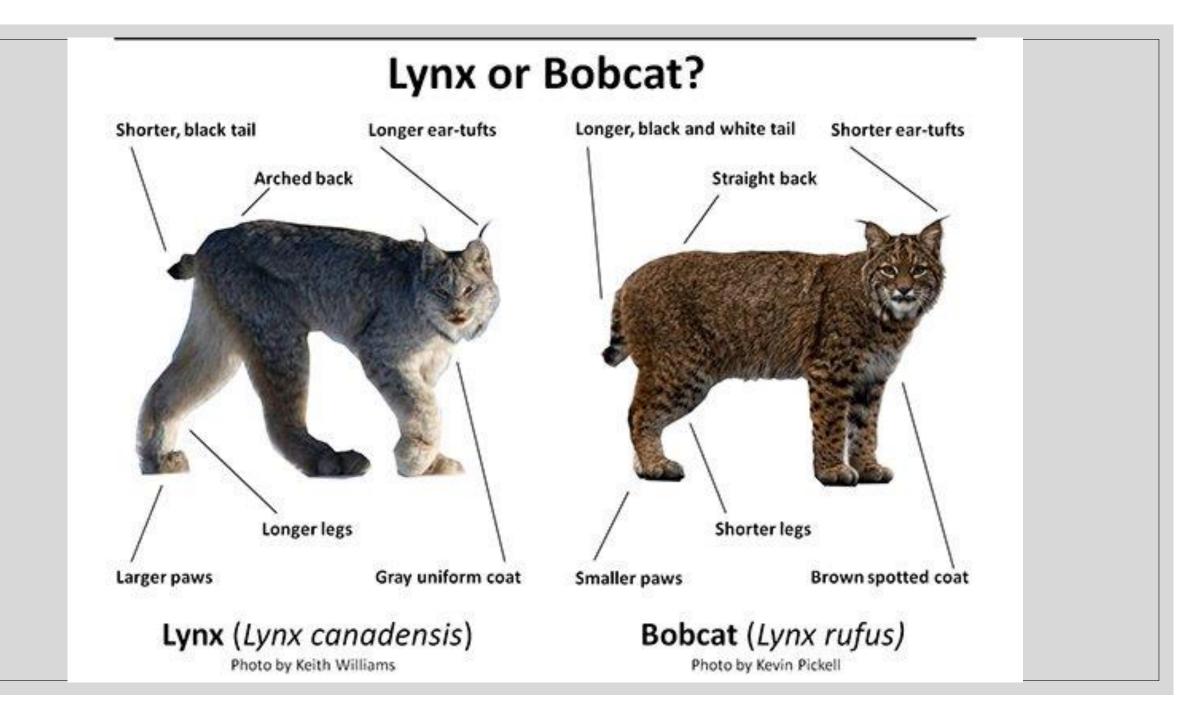


VS

Naming Species

Many organisms have common names, but these names can be confusing, making it sound like a lot of creatures are part of the same species when they are not!







•Siberian tigris



•Aegolius acadicus



•Canis lupus

Taxonomic Keys

 A taxonomic (or dichotomous) key is a tool that scientists use to help identify what species an organism belongs to

 It looks like a series of choices which allows you to then narrow down your options until you find the

exact species

Workbook

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