The Diversity of Living Things Continued

2) Phylum

Animals have been divide into 25 phyla (groups). They may be grouped by similar in basic structure.

Ex) The elephant, fish and polar bear all belong to the Chordata Phylum because they all have a backbone.

3) Class

Class members have more common characteristics.

Ex) Amphibians

- -All live part of life in water and on land
- Cold Blooded
- -Back Bone
- -Moist, smooth skin

| Ex) | |
|---------------|--------------------|
| Invertebrates | Vertebrates |
| | Mammals |
| Spiders | Birds |
| Insects | Amphibians |
| | Reptiles |
| 1 | Fish |

4) Order

5) Family

Groups are more alike than those of class

Three primary orders of Amphibia within the Subclass Lissamphibia

- > Caudata (Urodela) Salamanders
 - > Anura (Salientia) Frogs and toads
 - > Apoda (Gymnophiona) Caecilians

Groups are more alike than those of order

EX Family Cryptobranchidae - hellbenders

- > "hidden gill"
- > contain the largest living salamanders
- > distributed in eastern US, Japan, one species in China to 9
- > Cryptobranchis alleganiensis found in Appalachians of Kentucky/Tennesse

Family Ambystomatidae - mole salamanders

- > restricted to US and Canada
- > represented by marbled, tiger, and small-mouthed salamanders

These are made up of groups that are very similar, but the groups cannot breed together. Ex) Coyotes & Wolves

7) Species

6) Genus

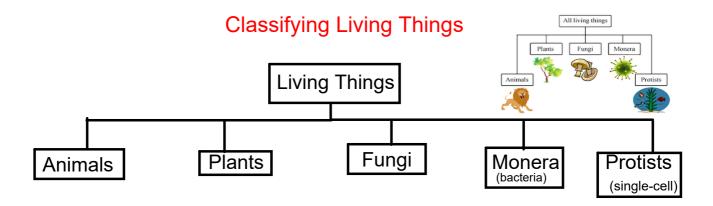
Is a population of animals that can breed with one another. The young grow up to look like their parents.

Proper terminology

We will look at this in a bit

What are some other Animal Phyla?

- Porifera & Cnidaria sponges & corals.
- Platyhelminthes flatworms, tapeworms
- Nematoda roundworms
- Mollusca clams, snails & slugs, squids
- Echinodermata starfish, sea urchins
- Annelida segmented worms (earthworms)
- Chordata fish, amphibians, reptiles, birds, mammals



A breakdown of more of each category is to follow on the next few slides

