### 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	<b>Invertebrates</b>	<b>Vertebrates</b>
-All live part of life in water and on land	Arthropods	Mammals
- Cold Blooded	Spiders	Birds
-Back Bone	Insects	Amphibians
-Moist, smooth skin	11130013	-
		Reptiles

### 4) Order

(%)

Groups are more alike than those of class

EX) Three primary orders of Amphibia within the Subclass Lissamphibia

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

## <u>5) Family</u>

Groups are more alike than those of order (Ex. Salamanders with hidden

gills are in the family Cryptobranchidae)

Family Cryptobranchidae - hellbenders

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

Family Ambystomatidae - mole salamanders

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

# 6) Genus

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

## 7) Species

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

https://www.nationalgeographic.com/animals/2006/05/grizzly-polar-bear-hybrid-animals/#close