

Animal Lab

- Look at the following slides!!!
- Put your lab books down!



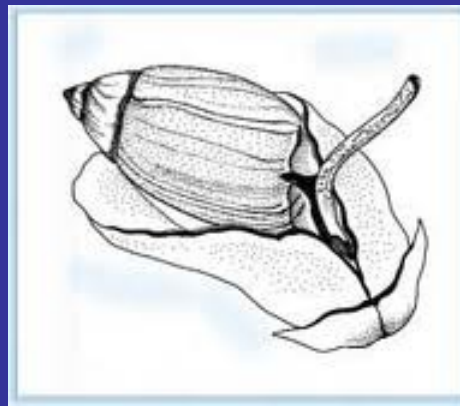
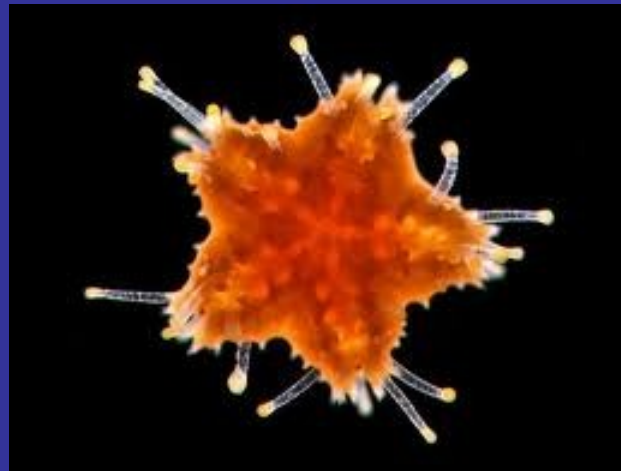
R. Gaugier DEEZ, Rutgers U



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All of these are in Kingdom
Animalia

You and I are too!!!

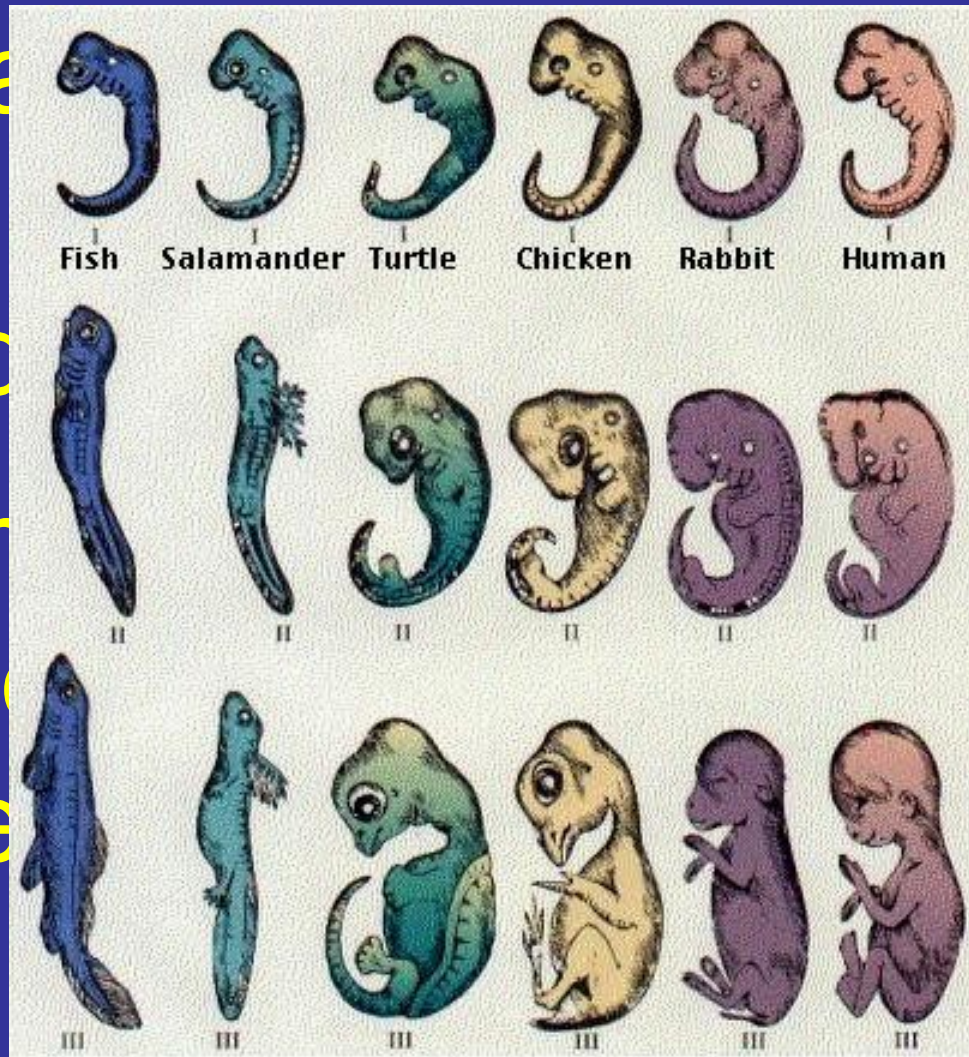
Problem

can we

this dive

group?

should we do
this, anyway?



Before DNA technology,
organisms were classified based
on their physical characteristics!

Taxonomy – the science of
naming/classifying organisms!

1. Classify these organisms (10
minutes)

- a. Put them in groups, and have a reason for the group
you put them in!!! Take notes!!! I'm going to come by
and ask you!

Discussion

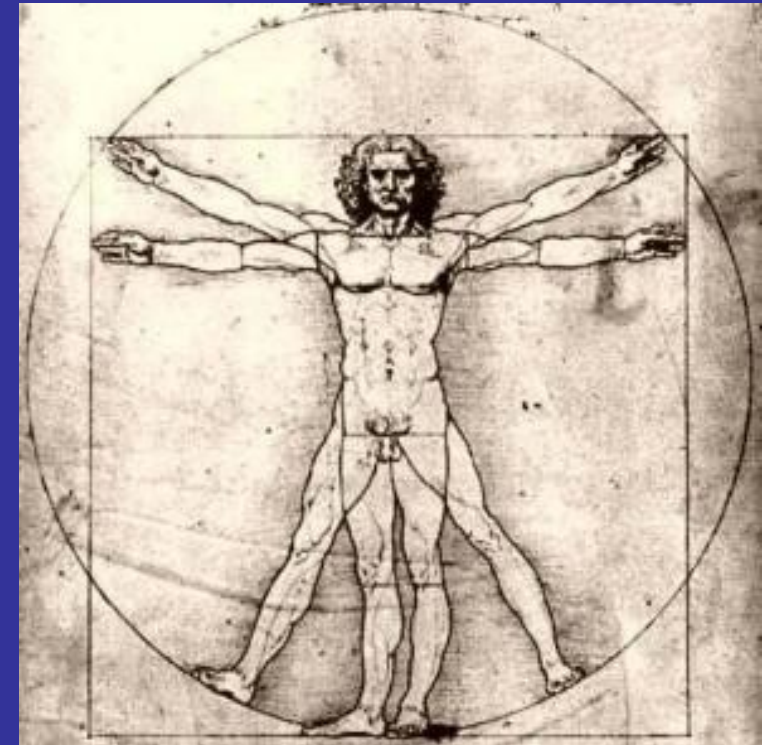
of groups? Characteristics of each group?

Limitations/difficulties???

Classifying organisms in broadest terms to most specific:

Dumb King Paul called out for Gus and Sam

1.	Domain	Eukarya
2.	Kingdom	Animalia
3.	Phylum	Chordata
4.	Class	Mammalia
2.	Order	Primates
3.	Family	Hominidae
4.	Genus	Homo
5.	Species	sapien



Binomial nomenclature
(genus & species)
Homo sapien – our
scientific name

Levels of taxonomy

	Levels of Taxonomy	Human Classification	Defining characteristics
Most Broad	Domain	Eukaryote	Cells contain complex membrane-enclosed structures
	Kingdom	Animalia	Multicellular, mobile, heterotrophic (must eat other organisms for nutrients)
	Phylum	Chordata	Spinal nerve cord, back bone, post anal tail (tail bone)
	Class	Mammalia	Mammary glands (milk) and hair on body
	Order	Primates	Large brains, opposable thumbs
	Family	Hominidae	aka "Great Apes", large, tailless, omnivorous
Least Broad	Genus	Homo	Human-like, use of tools
	Species	Sapiens	Reduced brow ridge, prominent chin, vertical forehead (allows for larger brain)

Phylums & Classes!!!

2. Classify your organisms again, using the phylums (described in your lab book)! Put Arthropods & Vertebrates in Classes (described in your lab book!) – 10 minutes!
3. Discussion - be able to ID for lab test (phylums & classes)! Know the characteristics!

Phylum Porifera – The sponges

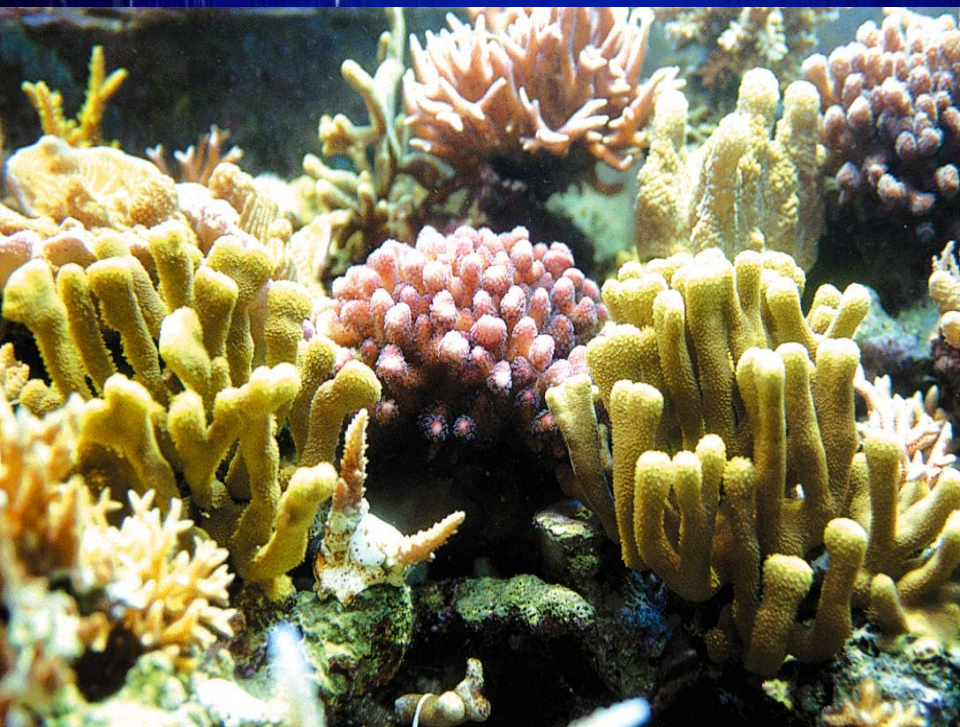




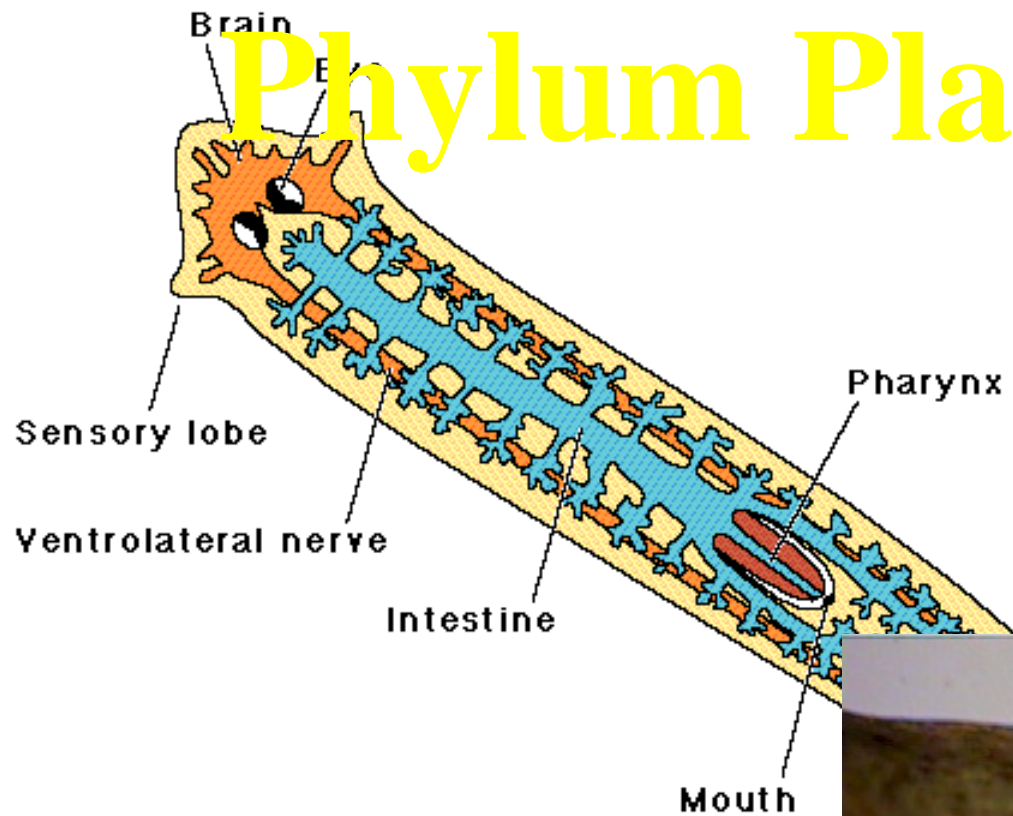
Phylum



Cnidaria



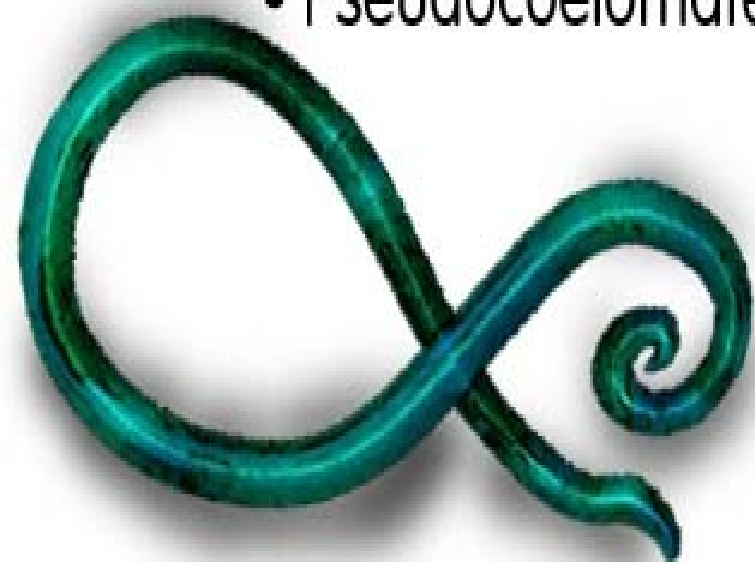
Phylum Platyhelminthes



Phylum Nematoda

Round Worms

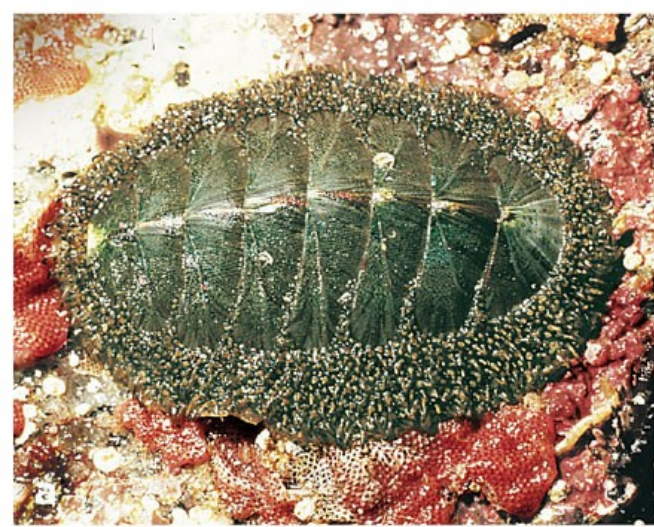
- Cylindrical Body Tapered at Both Ends
- Unsegmented
- Pseudocoelomate



Hookworms
Ascaris
Enterobius
Trichinella

Phylum Annelida





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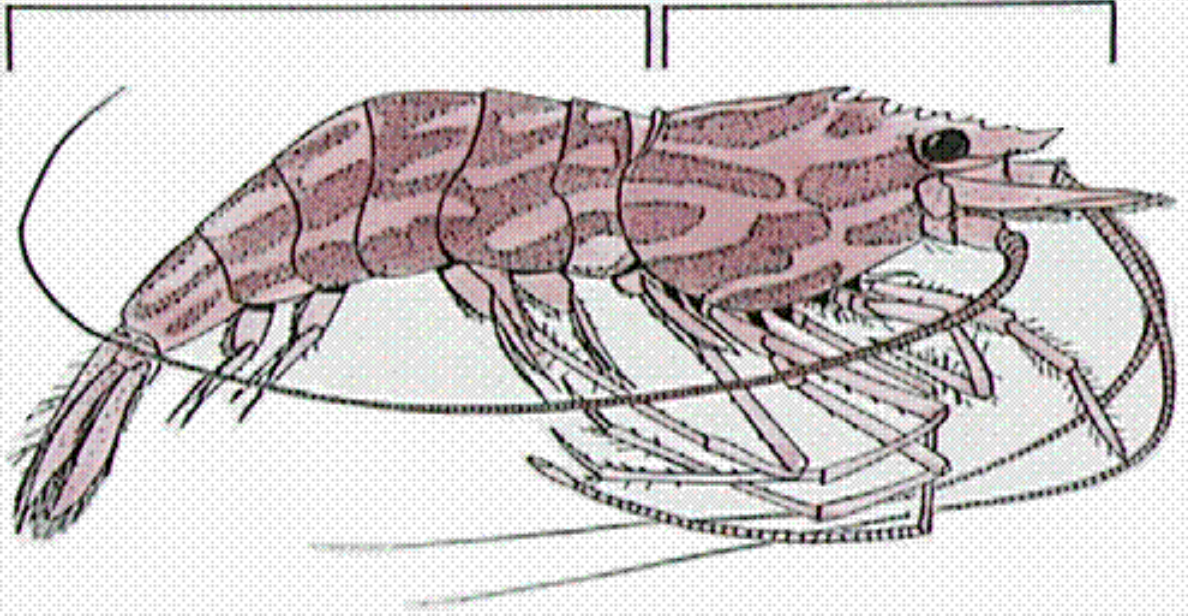
Phylum Mollusca

Phylum Arthropoda



Abdomen

Carapace covering
head and thorax



Class Crustacea



Class Arachnida



tick



scorpion



crab spider



garden spider



water spider



red-kneed tarantula

www.visualdictionaryonline.com

Class Insecta



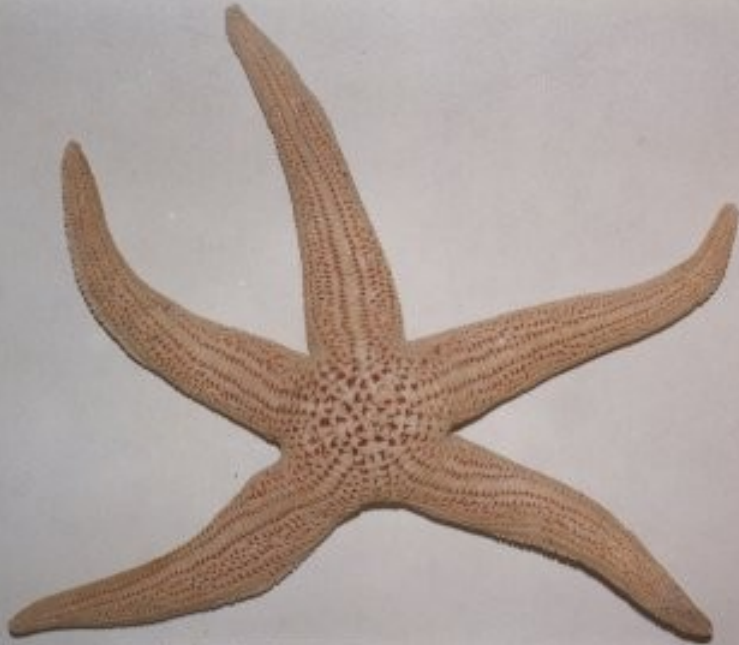
Phylum Echinodermata



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Phylum Chordata

Subphylum Vertebrata



Class Chondrichthyes

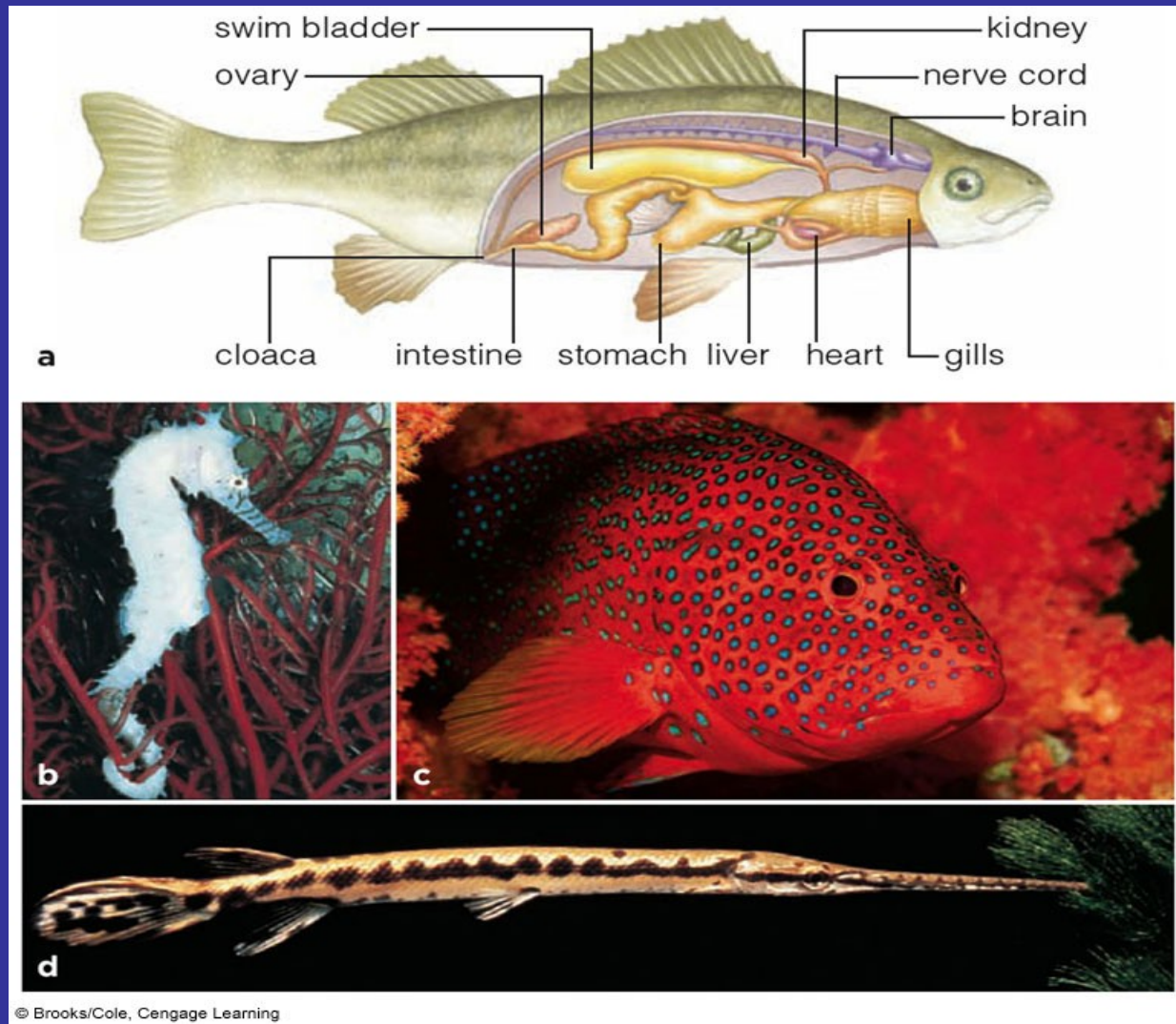


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Class Osteichthyes



Class Amphibia



salamander



tree frog



common toad



newt

Class Reptilia

Reptiles



Press the spacebar

Class Aves



Northern Cardinal



Carolina Chickadee



Turkey Vulture



Tufted Titmouse



Green Heron



Blue Jay



Carolina Wren



Great Blue Heron



Common Egret

Class Mammalia

