

Need to Knows (NTK's)

Classification – The 3 Domains and 6 Kingdoms of Life

<i>Scientific</i>	<i>examples</i>
A. The Prokaryotes: Organisms that lack a nucleus	
Domain- Archae	
1. Kingdom: Archaeobacteria	methanogens
Domain- Bacteria	
2. Kingdom: Eubacteria	bacteria, blue green algae
Phylum Schizophyta	bacteria
Phylum Cyanophyta	blue green algae
B. The Eukaryotes: Organisms with cells that have a nucleus	
Domain- Eukarya	
3. Kingdom: Protista (Protozoa)	diatoms, paramecium, ameba, most algae
Phylum Ciliophora	paramecium
Phylum Sarcodina	Ameba
Phylum Euglenophyta	Euglena
4. Kingdom: Fungi	Mushrooms, molds, yeast, slime molds
Phylum Basidiomycota	Mushrooms
5. Kingdom: Plantae (Plants)	
Phylum Bryophyta	Mosses
Phylum Tracheophyta	Vascular plants
Class Gymnospermae	Pines, cedars, redwoods
Class Angiospermae	Flowering plants – Roses, orchids, iris, apple
6. Kingdom: Animalia – Metazoa (Animals)	
Phylum Porifera	Sponges
Phylum Cnidaria	jellyfish, Sea Anemones, Corals
Phylum Platyhelminthes (flatworms)	planarians** , tapeworms
Phylum Nematoda (round worms)	<i>Ascaris sp.</i> , hookworms
Phylum Annelida (segmented worms)	earthworms** , leeches
Phylum Mollusca	Snails, Clams** , octopus
Class Cephalopoda	Squid** , Octopus
Class Gastropoda	Snails, slugs
Class Bivalva	Clams** , Mussels
Phylum Arthropoda	crabs, lobsters, insects, spiders
Class Crustacea	crabs, lobster, crayfish**
Class Insecta	grasshoppers**, flies, butterflies
Class Arachnida	Spiders, scorpions, ticks
Class Chilopoda	Centipedes
Class Diplopoda	Millipedes
Phylum Echinodermata	Starfish** , sea urchins, sand dollars
Phylum Chordata (backbones)	sharks, toads, snakes, birds, mammals,
Class Agnatha	Lampreys and Hagfish
Class Chondrichthyes	sharks, skates, and rays
Class Osteichthyes	Perch** , sardines, salmon, minnows
Class Amphibia (Amphibians)	Toads, frogs** , salamanders
Class Reptilia (Reptiles)	Lizards, snakes, turtles, alligators, and crocodiles
Class Aves (birds)	Eagles, penguins, hummingbirds, etc.
Class Mammalia (mammals)	Elephants, monkeys, pigs** , humans, etc.

**** These are critters we will be dissecting during the course of the year!!**