S5L1. Animal and Plant Classification Study Guide

- <u>8 Levels of Classification:</u> Largest to smallest
 - o Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species
 - Hint: Do Kids Prefer Candy Over Fried Green Spinach
- Plants and animals are multicellular
- The main difference between members of the plant kingdom and members of the animal kingdom is that plants make their own food and animals eat other living (once living) things.
- Characteristic: A feature belonging to a thing that helps to identify it
- Classify: To arrange in groups based on shared characteristics
- Warm-blooded: maintain a constant body temperature, typically above that of the surroundings
- Cold-blooded: having a body temperature like their environment

Animal Kingdom Classification

Vertebrates Animals with a backbone				
Mammals	Warm-blooded Gives milk to young Live births Hair	Human Monkey Whale		
Birds	Warm blooded Most fly Feathers	Pelican Penguin		
Reptiles	Cold blooded Dry, Scaly skin Lay eggs on land Have lungs	Snakes Turtles crocodile		
Amphibians	Cold blooded Begin in water then land Smooth moist skin helps them breathe	Frogs Salamander		
Fish	Cold blooded Scales Live in water Gills	Clown fish Piranha Blue Gill		

Invertebrates

Animals without a backbone
*Invertebrates have the greatest number of animal species on
Earth

Examples include: Butterflies, Insects, Snails, Clams, worms, Sand dollars, Sea stars, Horn sponges

- Vascular tissue: A material that supports a plant and conducts nutrients.
- Phloem: Tissue that carries food from a plant's leaves to its cells (transports food)
- Nonvascular plants absorb water and food similar to sponges
 - They are much smaller than vascular plants because they do not have a water transport system and need to be low to the ground to soak up their food and water

Plant Kingdom Classification				
Vascular Tissues carry water and food, these plants can grow tall			Nonvascular Don't have true roots, stems or leaves Examples include: moss, Liverworts, Hornwarts	
Plants without Seeds	Plants with Seeds			
Examples include: Ferns	Angiosperm Flowering plant that has seeds protected by a	Gymnosperm Seeds not protected by fruit or cone		
	fruit Examples include: Apple Trees	Examples include: Pine Trees with pinecones		