Animal Adaptations

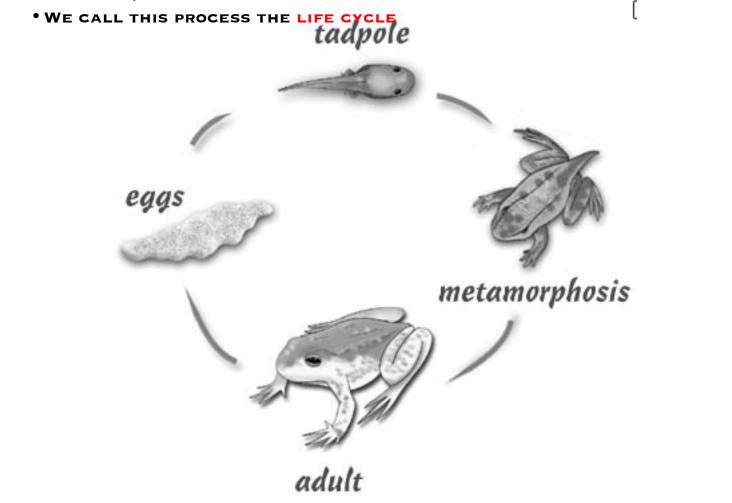
#	TERM	DEFINITION				
1	ADAPTATION	A body part or behavior that helps an organism survive in its environment. Ex. White fur helping a rabbit blend in with the snow.				
2	VERTEBRATE	An animal with a backbone. (Opposite: Invertebrate — An animal with a backbone.)				
3	LIFE CYCLE	All the stages an organism goes through from beginning of life to death				

AMPHIBIANS

Frogs, Toads, Salamanders

AMPHIBIANS SPEND THE $\mathbf{1}^{\mathsf{ST}}$ PART OF THEIR LIVES, AND THE $\mathbf{2}^{\mathsf{ND}}$ PART ON LAND, SO THEY NEED SPECIAL ADAPTATIONS.

- In the beginning, Frogs live in water and need to be able to get oxygen as fish do, so they have Gills
- THEY ALSO NEED TO SWIM AS FISH DO, SO THEY HAVE TAILS
- As the frog grows older, it begins to develop Legs to be able to move on land, and Lungs to breath air



BIRDS

Robin, Finch, Cardinal, Eagle, Hawk

•BONES ARE VERY LIGHT						
HAVEWINGS FOR FLIGHT						
FEATHERS HELP BIRDS STAY IN THE AIR AND CHANGEDIRECTION						
FEATHERS_ HELP BIRDS KEEP WARM IN COLD ENVIRONMENTS						
WATER BIRDS GIVE OFFOILS THEIR FEATHER TO PREVENT THEM FR						
WATER BIRDS HAVEWEBBED FEE	T THEY USE AS PADDLES TO SWIM					
(Water Bird, ie. Duck) strainer 2 Hummingbird/ the probe for sipping nector	1 webbed/swimming					
	2 raptor/prey					
3_Insect eaters/ hammering into trees or soil						
	3 wading in water					
4_(Tropical Bird) fruit eaters // Birds of prey: meat eaters						
	4grasping/perching					

5_

small birds: finch the cracker for seeds

REPTILES

Snakes, Lizards, Chameleons, Turtles...

- Reptiles are covered with Scales, which help them hold in water_. This is a
- physical adaptation
- Reptiles are cold-blooded, which mean they cannot control their own body temperature as mammals do. In really hot temperatures, they are more active at night and do all their hunting then. Animals that do this are called nocturnal_.
- During the day, they stay in the shade like under a rock. When they need to get warm, they lay out in the _sun_. This is a behavioral_ adaptation.

FISH

Perch, Sharks, Tuna, Beta, Salmon

- Fish live in water so they have no need for arms or legs. Instead, they have fins_ to help them swim.
- Just like other animals, fish need oxygen to release energy. However, they do not have lungs so they have gills that enable them to separate the oxygen from the water they take in.
- Some fish live in very cold water, but do not freeze because they produce a special chemical substance that prevents their fluids from freezing.
- These are all physical adaptations.

MAMMALS

Humans, Killer Whales, Dolphins, Mice, Rabbits, Horses, Dogs, Tigers, Gorillas, Chimpanzees, Bats, Kangaroos, Koala, Opossums, Bears

- Mammal adaptations differ depending on _their type of environment_.
- Polar bears live in the Arctic where it the climate is very cold. Their fur appears
 __white despite the fact that it is really clear! It appears this way so that they
 blend into the snow and seals cannot see them hunting for them.
- Most Arctic animals have __thick_ fur that helps hold in heat close to the skin.
- Whales & seals that swim in Arctic waters have a layer of fat called __blubber_ just under their skin to keep heat from escaping their bodies.
- Mammals in hot, dry areas like the <u>__desert__</u> have adaptations too.
- Both jackrabbits that live in this area, and elephants that live in hot grasslands called ____savannas____, have very large ___ears____ that flap in the wind to allow heat to escape.
- Kangaroo rats live these hot, dry regions as well and drink almost no water. They
 get all the water they need from the ____food____ they eat and their ability to
 conserve water.

EXAMPLES OF ADAPTATIONS: