

WHAT ANIMALS DO TO SURVIVE

• Feeding

 Most animals cannot absorb food, instead, they ingest (or eat) it









WHAT ANIMALS DO TO SURVIVE

• <u>Respiration</u>

 Whether they live in water or on land, all animals respire, they take in oxygen & give off carbon dioxide



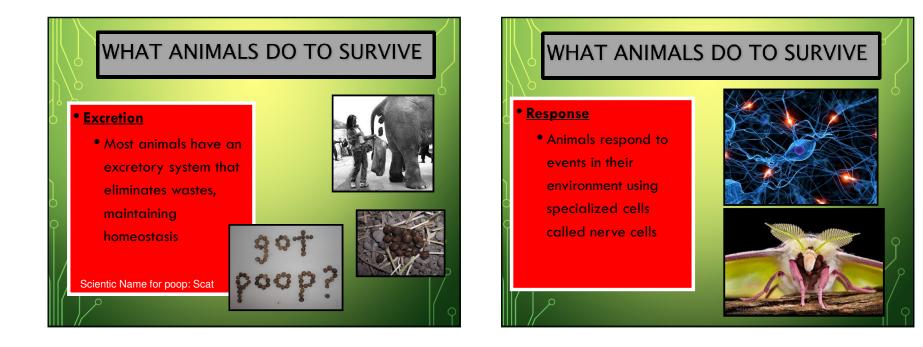


WHAT ANIMALS DO TO SURVIVE

• Circulation

- Small animals rely on diffusion to transport nutrients
- Large animals have a circulatory system to move nutrients around





WHAT ANIMALS DO TO SURVIVE Structure/Movement Most animals are motile,

meaning they can move around



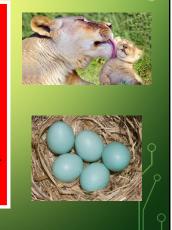


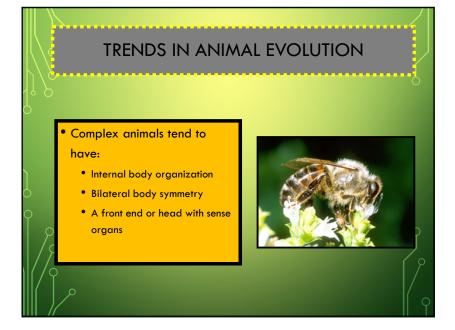


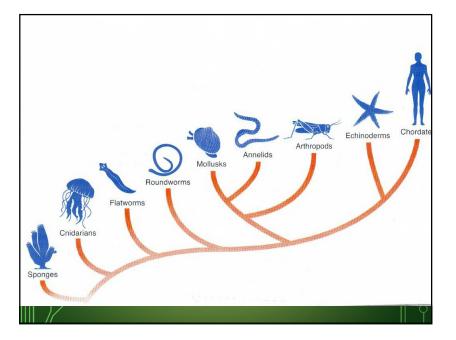
WHAT ANIMALS DO TO SURVIVE

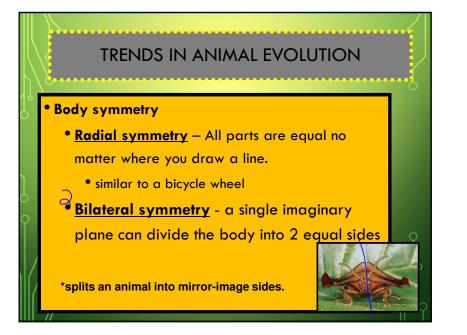
• <u>Reproduction</u>

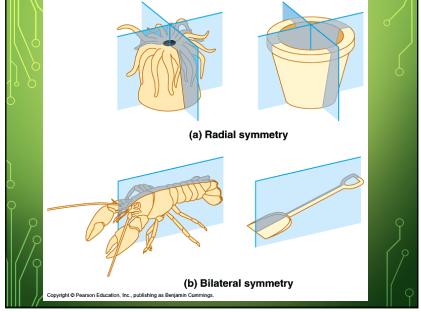
- Most animals reproduce sexually, which helps create & maintain genetic diversity in populations
- It improves the species ability to evolve when the environment changes

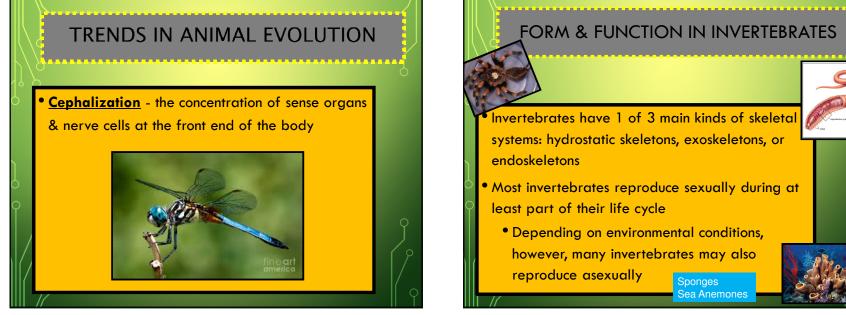


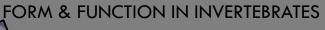












Invertebrates have 1 of 3 main kinds of skeletal systems: hydrostatic skeletons, exoskeletons, or

- Most invertebrates reproduce sexually during at least part of their life cycle
 - Depending on environmental conditions, however, many invertebrates may also reproduce asexually Sponges Sea Anemones

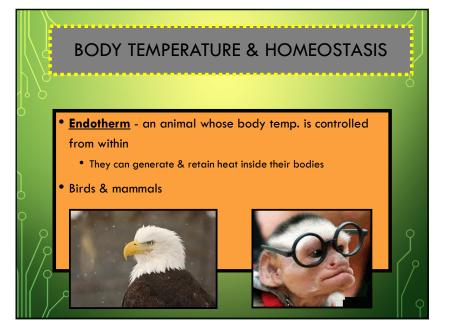
BODY TEMPERATURE & HOMEOSTASIS Homeostasis: the control of body temperature is important for maintaining homeostasis in vertebrates. Particularly in habitats where temperature varies widely with time of day & with season

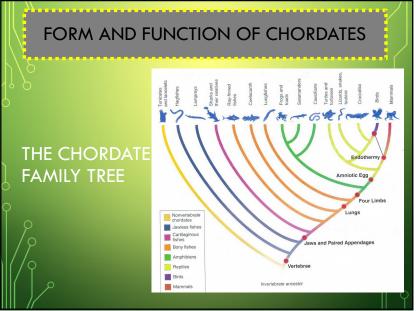
Ex: The internal control of body temperature allows emperor penguins to live in cold Antarctic climates, where their feathers act as insulation

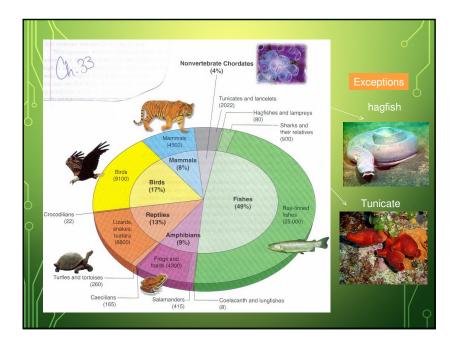
BODY TEMPERATURE & HOMEOSTASIS

- <u>Ectotherm</u> the body temperature is determined by the temperature of the environent..
 - The animals pick up heat from, or lose heat to, their environ.
- Most reptiles, fishes, & amphibians









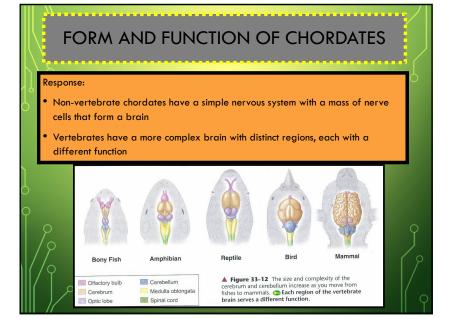
FORM AND FUNCTION OF CHORDATES

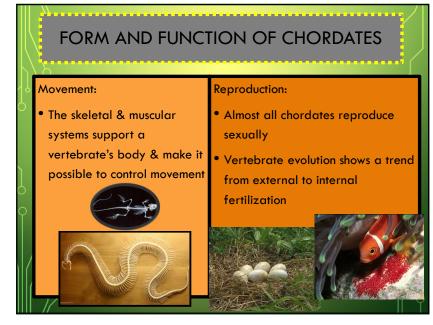
Respiration:

- As a general rule, aquatic chordates (tunicates, fishes, & amphibian larvae) use gills for respiration
- Land vertebrates (adult amphibians, reptiles, birds, & mammals) use lungs







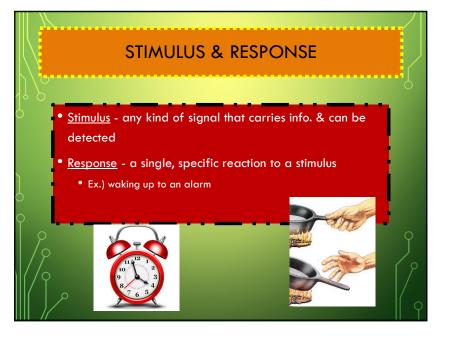


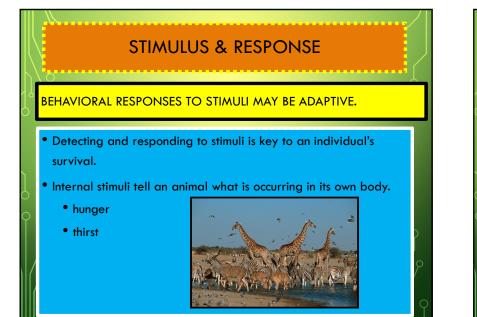
ANIMAL BEHAVIOR: STIMULUS & RESPONSE

• <u>Behavior</u> - the way an organism reacts to changes in its internal condition or external environment

• Ex.) turning your head toward a sound, or washing your food









STIMULUS & RESPONSE

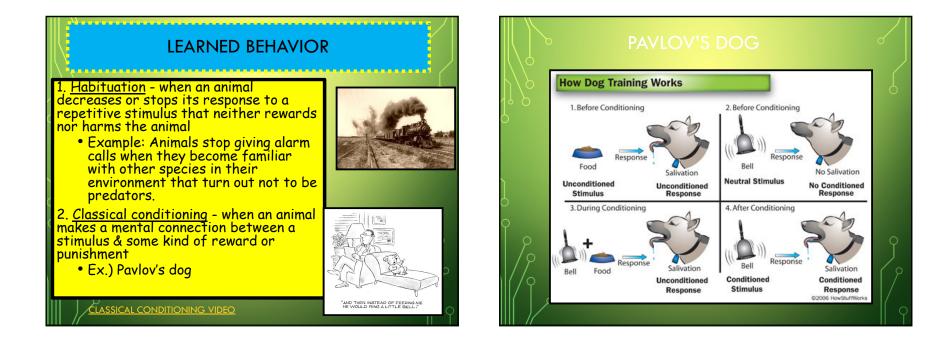
• When an animal responds to a stimulus, body systems (including sense organs, nervous system, & muscles), interact to produce the resulting behavior



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Operant Conditioning Video

WILL PRESS LEVER FOR FOOD

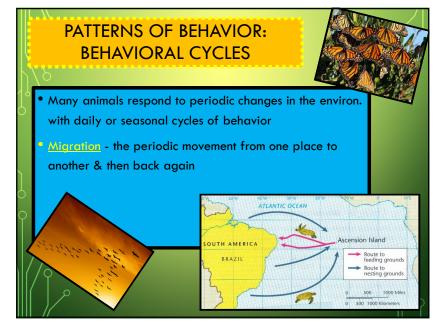
LEARNED BEHAVIOR

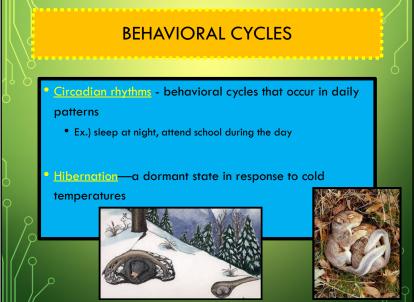
 Insight learning – (reasoning) occurs when an animal applies something it has already learned to a new situation, without a period of trial & error



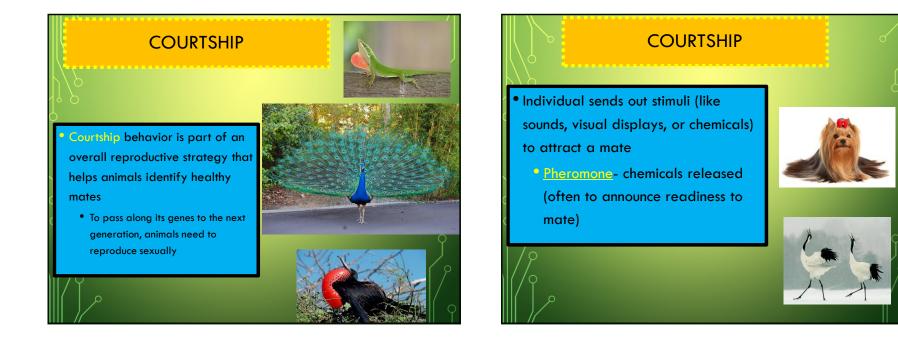
EX: CHIMPANZEE STACKING BOXES TO REACH BANANAS HANGING FROM CEILING











COMPETITION & AGGRESSION

Ierritory - a specific area that is occupied & protected by an animal or group of animals

• When 2 or more animals try to claim limited resources, such as a territory or food, competition occurs



COMPETITION & AGGRESSION

• During competition, animals may also show aggression

• <u>Aggression</u> - a threatening behavior that one animal uses to gain control over another









COMMUNICATION

<u>Communication</u> - the passing of information from one organism to another

• Animals may use visual, sound, touch, or chemical signals to communicate with one another







COMMUNICATION

Lenguage - a system of communication that combines sounds, symbols, or gestures according to sets of rules about word order & meaning (grammar & syntax)

• It is the most complicated form of communication

