## Chapter 14: Animals and Behavior Section 1: What is an Animal?

What do you think of when you hear the word animal?

Animals come in many shapes and sizes.

- Some have four legs and fur while others do not.
- Some are too small while others are bigger than a school bus
- All part of the animal kingdom (review 7 parts)

## **Animals:**

• Examples: spiders, fish, birds, slugs, kangaroos, monkeys, cats, dogs, corals, feather stars

Vertebrate: an animal that has a backbone

- Fishes, amphibians, reptiles, birds, mammals
  - Humans are one of the 5000 species of mammals
- Most familiar
- Minority...5% of known animal species are vertebrates

Invertebrate: an animal that does not have a backbone

- Insects, snails, jellyfish, worms
- Beetles make up 30% of animal species

## **Animal Characteristics:**

- Multicellular: made of many cells
- Eukaryotic: has a nucleus
- Animals don't have cell walls but cell membranes

- Almost all animals reproduce sexually
  - Have sex cells egg and sperm
  - When these join during fertilization, they form the first cell of a new organism
  - o This cell divides into many cells to form an embryo
    - Embryo: an organism at an early stage of development
- Some animals can reproduce asexually
  - O Hydras can reproduce by budding
  - Budding: part of an organism breaks off and develops as a new organism
- Animal's cells develop into special cells like skin, muscle, nerve, or bone cells
  - o These cells form tissues, organs, and so on
    - *Tissues:* collection of similar cells
    - Organ: a group of tissues that carry out a special function of the body
      - Heart, lungs, and kidneys
- *Most* animals move from place to place
  - Use movement to search for food, shelter, or mates at some stage of life
  - o Some swim during early stages of their life
  - o Some are stationary on rocks or the ocean floor
- Animals cannot make our own food like plants
- Consumer: an organism that eats other organisms
  - o Herbivores: animals that eat plants
  - o Carnivores: animals that eat meat
  - Omnivores: animals that eat both plants and meat