**Notes: Ecology #2**

**Community**

* Definition:
  + Many different populations of organisms living together and interacting with one another
* There are many types of **species interactions** within a community

1. Antagonism
   * + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Mutualism
3. Commensalism
4. Competition

**Species Interactions**

1. **Antagonism** 
   * + One species benefits at the expense of another
     + Many types of antagonism (parasitism, predation, herbivory)
   * **Parasitism**
     + - Interaction of a parasite and a host
       - **Parasite**—Organism benefiting
         * Lives in or on host
         * Gets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
         * Does not intend to kill, or kill quickly
       - **Host**—Organism harmed
       - **Example:**
   * **Predation**:
     + Interaction of predator and prey
     + **Predator**:
       - Hunts and kills
     + **Prey**:
       - Pursued and killed by predators
     + Predator intends to kill the prey
     + **Example:** 
       - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. Mutualism**:

* + Relationship between two different species in which **both** benefit
    - **Example:**
    - **Example:** 
      * :
      * :
    - **Example:**

**3. Commensalism**:

* + Relationship in which one organism benefits and the other is not affected
    - Ex. Clown fish and sea anemones
      * + :

**4. Competition:**

* + Species do worse together than they would if they were apart
  + Relationship between members of the same species or members of different species.
  + Organisms compete for and/or defend a resource.
  + Resources organisms compete for:
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| Type of Interaction | Effect on Organism/Species 1 | Effect on Organism/Species 2 | Example |
| Antagonism (parasitism, predation, herbivory) |  |  |  |
| Mutualism |  |  |  |
| Commensalism |  |  |  |
| Competition |  |  |  |