

Community Interactions

Predation, Competition & Symbiosis Notes

Name: _____ Date: _____ Block: _____

Competition & Predation:

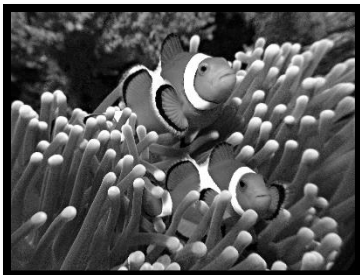
1. _____: occurs when organisms of the same or different species attempt to use an ecological resource in the **SAME** place at the **SAME** time.
2. A **Resource** is any necessity of life. Name all of the resources an organism may need for survival.



3. What is meant by **predation**? _____
4. How many times of competition are there? _____
 - a. This term means competition between **two different** species:
 - b. This term means competition between members of the **SAME** species:

Symbiosis:

5. **SYMBIOSIS** means any relationship in which two species live closely together. What is another way to remember what symbiosis means? _____
6. Name the **3 main** classes of symbiotic relationships below:
 - a. _____: Both Benefit! 😊😊
 - b. _____: One benefits while the other is neither helped nor harmed 😊😐
 - c. _____: One benefits, the other is harmed. 😊😞



Name That Relationship Game

In the scenarios below: Indicate whether the symbiotic relationship is Mutualism, Commensalism or Parasitism.

1. The **ants** lay eggs on acacia trees so they can get a nice safe place for their eggs. The **acacia** covers the infected area with brown flesh (called gall). The plants has to use valuable resources to create gall.
2. This **fish** lives its entire adult life among the tentacles of a bulb-tentacle sea anemone. Anemone fish do not get stung by the anemone as would most other fish so they get protections from predators. The fish often drop food scraps which the **anemones** can eat.
3. The **remora fish** attaches itself to the shark and saves energy since it doesn't have to swim, and it gets to snack on the sharks kills. The **shark** doesn't get anything.
4. A **tick** lives within the fur of a dog. The fur provides shelter for the tick and the dog's blood provides a food source. The **dog** could potentially get Lyme Disease.
5. This **Boxer Crab** carries a pair of stinging anemones in its claws, which it uses to defend itself from predators. The **anemones** get to move around which increases their food supply.
6. The tiny **emperor shrimp** is riding along on the back of a **sea cucumber** (a long worm-like starfish relative) which it crawls along the sandy bottom. The shrimp gets to travel around under the protection of its larger partner, and the sea cucumber doesn't seem to mind.
7. The **moray eel** has a small **fish** cleaning between its teeth. The eel gets a clean mouth while the cleaner fish get a nice meal.
8. As these **cattle** walk around eating grass they stir up lots of insects. The **egrets** hand around and get a yummy meal of insects.
9. This **worm** infects human blood stream and gets a nice warm safe home there. The **human** may go blind or have other complications as a result.

10. HummingBird Moth & Flower: _____