Why Can’t We All Just Get Along?

**Objective:** To explain the types of relationships that exist between organisms

**Bell work:** Define the following terms in your own words:

1. **Competition:** To fight for a resource
2. **Predator:** The organism that hunts
3. **Prey:** The organism that gets eaten
**Predation**: interaction where one organism (predator) kills another organism for food (prey)
Competition: struggle between organisms to survive as they attempt to use the same limited resource
Limiting Factors of Ecosystems

**Limiting factor**: an environmental condition or resource that limits the size of a population of organisms.

What are examples of limiting factors?
- Food
- Water
- Weather
- Accidents
- Natural Catastrophe
- Disease
- Predators
- Space/Habitat
- Mate
- Competition

The largest population an area can support is its **carrying capacity** which is driven by limiting factors.
Interactions of Living Things

**Symbiosis**: close relationship created between two species due to coevolution (species evolve together in their environment).

The relationship must **benefit** at least one of the species.
There are three types of symbiotic relationships: **Mutualism (+,+):** relationship where both species benefit

- Clownfish & Sea Anemone
- Buffalo & Tickbird
- Bumblebee & Flowers
Commensalism (+,0): relationship where one species **benefits** and the other species is neither **helped** nor **harmed**

- Shark & Remora
- Spanish Moss & Trees
- Elephant & Egret

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Parasitism (+,-): relationship where one species benefits (parasite) while the other is harmed (host)

- Ticks & Mammals
- Mosquitoes & Mammals
- Cuckoo Bird & Bird Nests
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