Warm Up: go to Spiral.ac and answer the quickfire question.

Class Codes:
A1/2 - SMXCP
A3/4 - VEZSP
B7/8 - UJKBJ
Animals are always interacting. We have specific words for different types of interactions.

EX: Predator and Prey

Predator - the hunter

Prey - the hunted
Cooperation - animals working together to accomplish the same goal.

Ex: Cheetahs hunting together
Competition - organisms fighting over the same resource.
Resources can include: mates, food, water, territory, and sunlight

Ex: Oryx fighting over a mate

Plants competing for sunlight
What is symbiosis?

When 2 organisms or species of organism live together.

They have a special relationship.

Can be for short or long period of time.

AT LEAST ONE organism benefits from the relationship.
There are 3 kinds of Symbiosis:

1. Mutualism – BOTH organisms benefit
Anemone & Anemone Fish

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 protection from predators. The fish often drop food scraps which the anemones can eat.
There are 3 kinds of Symbiosis:

2. Commensalism - ONE organisms benefits and the other is NOT AFFECTED

Organism #1

Organism #2 (zen)
Shark & Remora

The remora 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.
There are 3 kinds of Symbiosis:

1. Parasitism - ONE organism benefits and the other is HARMED

Organism #1

Organism #2
Acacia Plant & Ants

The ants lay eggs on acacia tree so they get a nice safe place for their eggs. The acacia covers the infected area with brown flesh (called a gall.) The plant has to use valuable resources to create the gall.
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.
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*Mutualism*
As these cattle walk around eating grass they stir up lots of insects. The egrets hang around and get a yummy meal of insects.
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This ox bird hangs out on the antelope and gets a delicious meal of bugs living on the antelope. The antelope gets rid of parasites.
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This worm infects *the human* blood stream and gets a nice warm safe home there. The human may go blind or have other complications as a result.
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*Parasitism*
Card Activity

1. Read the cards and figure out which organisms have relationships.

2. Raise your hand for me to check your pairings.

3. Group your pairings into the 3 types of symbiotic relationships.

4. Raise your hand for me to check your work.

5. When done, pick up the vocabulary chart.
Planks of Life Activity

Objective: Suspend the can above the desk

- Wooden sticks can only touch each other, the blocks, and the can.
- The can can be no closer than 40cm (long sticks) OR 24cm (short sticks) to the blocks

*What do you think the three sticks represent in the real world?*