# What Do They Need?

W	hat	$T_{\Lambda}$	D	۸.
vv	пип	10	17	D.

- 1. Think about the basic needs of living things.
- 2. Share with your partners and list what you came up with below.

3. Watch the first part of this third grade video to remind you of what the basic needs are.

https://www.youtube.com/watch?v=2HLbNvoX9pA

And list what the basic needs of living thing is mentions.

4. How do your lists compare?

### **Explore**

#### What To Do:

- 1. Read about the plants and animals below.
- 2. Determine which of the basic needs are being met in the interactions between them.
- 1. Hummingbirds gain nectar from flowers and flowers are pollinated by hummingbirds as they move from flower to flower.
- a. What basic need does the hummingbird get from the flower?

b. How does the flower benefit?

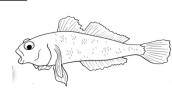
c. Is the flower or hummingbird harmed in their interaction?

2. Snapping shrimp have poor vision and depend on Goby fish to give the danger signal when predators come. Goby fish also guide them back home if they wander too far away. Goby fish, who don't have a place to hide are quickly eaten. They find a Snapping shrimp roommate who digs a hole for both to live in.

a. What basic need is the Goby fish getting from the Snapping shrimp?

b. How does the Snapping shrimp benefit?

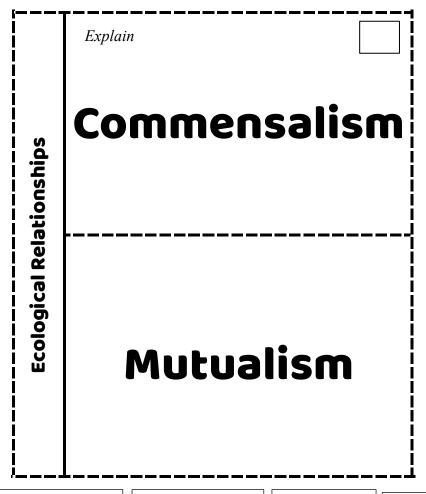
c. Is the shrimp or fish harmed in their interaction?



3. Orchids typically live on the tru attach themselves to the higher sur sunlight and rainwater to make the from the tree.	faces of trees and are able to get
a. What basic need is the Orchid getting from the tree?	
b. How does the tree benefit?	
c. Is the orchid or tree harmed in their interaction?	
marine animals, such as sharks. The transportation, and they also are ab	bles them to stick themselves to larger
a. What basic need is the remora	
getting from the shark?	
b. How does the shark benefit?	irregularlycreative.tumblr.com
c. Is the remora or shark harmed in	their interaction?

#### What To Do:

- 1. Cut out the foldable below and glue it into your notebook using the Ecological Relationships tab.
- 2. Work with your teacher to write the definitions under the flaps.
- 3. Cut out the living things names at the bottom and glue them on the back of the flaps to show which relationships are which.



Hummingbirds and flowers

Gobi fish and Snapping Shrimp

Orchids and trees

Remora and sharks

Elaborate The ecological relation mutualism and commersymbiotic relationships	nsalism. These rela	ed about are parasitism, tionships are called	3. Spider crab and algae: Spider crabs live in shallow areas of the ocean floor, and greenish-brown algae lives on the crabs' backs, making the crabs blend in with their environment, and unnoticeable to predators. The algae get a good place to live, and the crab gets camouflage.	
	is harmed in the re	helped in the relationship lationship. If an organism is ox.	Organism 1: □ helped □harmed □not harmed/not helped Organism 2: □ helped □harmed □not harmed/not helped Symbiotic Relationship:	
Type of Symbiosis	Organism 1	Organism 2		
Mutualism			4. Remora and the shark: Remora fish are small fish that make	
Commensalism			their niche by picking up the scraps that sharks leave behind	
Parasitism			while feeding. The shark makes no attempt to prey on the remora fish.	
1. Oxpecker and zebras: Oxpeckers are a type of small bird that land on zebras and eat ticks and other parasites that live on the zebra's skin. The oxpeckers get food and the zebras get pests removed.			5. Bee and the flower: Bees fly from flower to flower-gathering nectar, which they make into food. When they land in a flower, the bees get some pollen on their hairy bodies, and when they land in the next flower, some of the pollen from the first one rubs off, pollinating the plant.	
Organism 1: ☐ helped ☐		-	ponen from the first one ruos on, ponnating the plant.	
Organism 2: □ helped □harmed □not harmed/not helped Symbiotic Relationship:			Organism 1: □ helped □harmed □not harmed/not helped Organism 2: □ helped □harmed □not harmed/not helped Symbiotic Relationship:	
2. Tapeworm and animal			Symolotic Relationship.	
		ines of animals such as cows,	6. Bacteria and the human colon: Bacteria live in the colon of	
pigs, and humans. Tapeworms get food by eating the host's (animal) partly digested food, depriving the host (animal) of nutrients.			humans and are able to feed off the indigestible food that the human body cannot break down (cellulose of plants). In the process of breaking down the food, the bacteria also make	
Organism 1: □ helped □ Organism 2: □ helped □ Symbiotic Relationship:	harmed □not harm	ed/not helped	much-needed vitamins that the human body in turn can use to keep healthy.	
•			Organism 1: □ helped □harmed □not harmed/not helped Organism 2: □ helped □harmed □not harmed/not helped Symbiotic Relationship:	

7. Dog and the tick: Ticks live on dogs and feed off the dog's blood. They may also infect the dog with a parasite that can cause the dog to	Evaluate Name period		
become quite sick. Dogs also are sometimes found to be very tired because a large volume of their blood has been drained.	EXIT TICKET  Mutualism and Commensalism		
Organism 1: ☐ helped ☐ harmed ☐ not harmed/not helped Organism 2: ☐ helped ☐ harmed ☐ not harmed/not helped Symbiotic Relationship:	Identify each type of symbiotic relationship is described below Place an M for mutualism, and C for commensalism and a P for parasitism.		
8. Ostriches and gazelles: They feed next to each other and watch for predators, alerting each other to danger. Since the visual abilities of the	1. A tick living on a dog.		
two species are different, they each can identify threats the other animal would not as readily see.	2. A tapeworm living in a 6th grade student's intestines.		
	3. A bird building their nest in a tree.		
Organism 1: ☐ helped ☐ harmed ☐ not harmed/not helped Organism 2: ☐ helped ☐ harmed ☐ not harmed/not helped Symbiotic Relationship:	4. Head lice living on a human scalp.		
9. Hermit crabs and snails: Hermit crabs live in shells made and abandoned by snails.	5. The ants protecting the acacia tree and tree provides food for the ants.		
Organism 1: □ helped □harmed □not harmed/not helped Organism 2: □ helped □harmed □not harmed/not helped	6. Orchids growing in tall tropical trees, the trees are no harmed but the orchids get sunlight.		
Symbiotic Relationship:	7. A sixth grader and their pet.		
10. Cuckoo and warbler: A cuckoo may lay its eggs in a warbler's nest. The cuckoo's young will displace the warbler's young and will be raised by the warbler.	8. Algae growing on the fur of a sloth, giving it camouflage and the algae getting sunlight to make food.		
Organism 1: □ helped □harmed □not harmed/not helped Organism 2: □ helped □harmed □not harmed/not helped Symbiotic Relationship:	9. Small mites live on your skin, eating dead skin cells. You don't even notice.		
11. Mistletoe and spruce tree: Mistletoe takes water and nutrients from the spruce, harming the tree.	10. Honey guide birds alert and direct badgers to bee hives. The badgers then break open the hives and feed on the honey first. Then the honey guide birds eat.		
Organism 1: ☐ helped ☐ harmed ☐ not harmed/not helped Organism 2: ☐ helped ☐ harmed ☐ not harmed/not helped Symbiotic Relationship:			

Evaluate	
Name	period
	EXIT TICKET

## Mutualism and Commensalism

1. A tick living on a dog.
2. A tapeworm living in a 6th grade student's intestines.
3. A bird building their nest in a tree.
4. Head lice living on a human scalp.
5. The ants protecting the acacia tree and tree provides food for the ants.
6. Orchids growing in tall tropical trees, the trees are not harmed but the orchids get sunlight.
7. A sixth grader and their pet.
8. Algae growing on the fur of a sloth, giving it camouflage and the algae getting sunlight to make food.
9. Small mites live on your skin, eating dead skin cells. You don't even notice.
10. Honey guide birds alert and direct badgers to bee