

These pages are from the Kindergarten "Plants and Animals Have Needs" journal.



This baby manatee drinks milk (above). These manatees eat plants (below).



Show the photographs and lead the discussion.

What do manatees need to live?

The manatee is another type of animal that lives near the bonnethead sharks. Manatees also eat plants, but they do not eat other animals. They eat many types of plants. They like to eat musk grass, alligator weed, water lettuce, and floating hyacinth. They eat seven hours a day! They can eat 150 pounds of plants in one day!

Define

An **herbivore** is a creature that eats only plants.

Ask

Can you think of an animal that eats only plants?

Example: A manatee, a cow, a sheep, a goat, a grasshopper, and a horse are all animals that only eat plants.

Ask

Is a manatee an omnivore, or an herbivore? Why?

Example: Since manatees only eat plants, they are herbivores. Herbivores are animals that only eat plants.

Ask

What do the photos tell us about what a manatee needs to survive?

Example: I see a manatee eating plants and a baby manatee with its mother. Manatees need their parents when they are babies. The manatee has a mouth and nose. Manatees cannot breathe underwater and need to come to the surface for air!

Ask

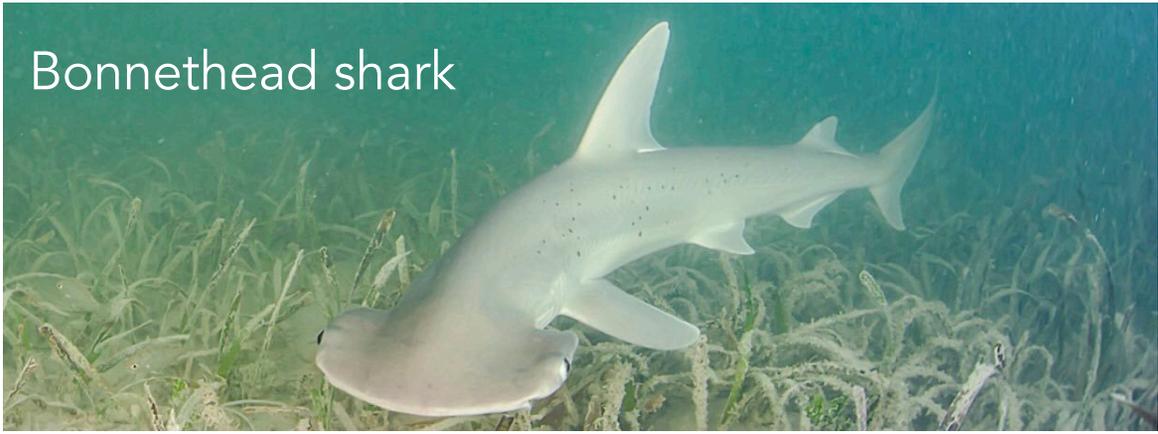
What do you think a manatee needs to live?

Listen to your students' ideas. Ask them to take a close look at the photos to see if they can tell what a manatee needs. Walk around to show them the photo or put the photo up on your projector or smart board.

Explain

A manatee needs food, water, air, warmth, and sleep to live.

Bonnethead shark



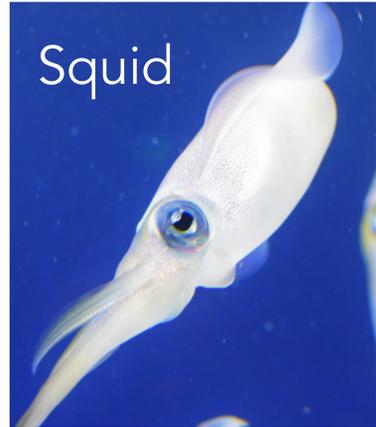
Fish



Grass



Squid



Manatee



Grass



Only plants

A pod of orca whales



Orca whales travel and hunt together (above). Orca whales breathe air (below).

Orca



Show the photo and lead the discussion.

What do orca whales need to live?

Orca whales are at the top of the food chain. Nothing hunts or eats them, but they like to eat a lot of different things. They like to eat fish, squid, penguins, seals, sea lions, and even other whales. They do not, however, like to eat plants. No veggies, please!

Define

A **carnivore** is a creature that eats only other animals.

Ask

Can you think of an animal that eats only animals?

Example: A tiger, a lion, a shark, an eagle, and a hawk are all examples of animals that eat only other animals.

Ask

Is an orca an omnivore, an herbivore, or a carnivore? Why?

Example: Since orcas only like to eat other animals, they are carnivores. Carnivores are animals that only eat other animals.

Explain

A family of orcas is called a pod. These orcas travel as a pod. Each orca has a dorsal fin that sticks high up out of the water.

Ask

Can you see orcas of different ages in this photo? How can you tell?

Example: I see six orcas in the top picture. I see one orca that looks like a baby because it has a dorsal fin that is much smaller than the other orcas.

Ask

What do you think an orca needs to live and grow?

Example: An orca needs food. We can see that an orca has a mouth for eating. Orcas are mammals, so they are warm blooded, like you and me. Orcas have bodies with thick blubber to keep them warm inside. These orcas need air to breathe. Orcas need water. They also need to sleep and rest.

Crab



This crab is eating a fish (above).

This crab is eating plants (below).

Crab



Show the photo and lead the discussion.

What do crabs need to live?

On the vegetable side of things, crabs like to eat algae, which is a green plant that grows underwater. On the meat side of things, crabs like to eat nice juicy fish meat, but they are scavengers and will eat any dead animal they can get their claws on.

Ask

Is a crab an omnivore, an herbivore, or a carnivore? Why?

Example: Since crabs like to eat plants and other animals, they are omnivores. Omnivores are animals that eat both plants and other animals.

Ask

How many legs do these crabs have? What do you think they use their legs for?

Example: I see eight legs in all! Six of the legs look like they are for walking and climbing. Notice how the back legs are sharp and pointy. The front two legs have a claw that can grab, pinch and cut food. Crabs use their claws like we use our hands!

Explain

Crabs are very different from you and I, but crabs need many of the same things to live and grow.

Ask

What do you think a crab needs to live and grow?

Listen to your students' ideas. Ask them to take a close look at the crab photos to see if they can tell what a crab needs. Walk around to show them the photo or put the photo up on your projector or smart board.

Explain

A crab needs food. We can see that a crab has a mouth for eating, legs to crawl towards food and claws to grab it. A crab also needs warmth. These crabs cannot live in an icy place! These crabs need air to breathe and water to drink. Crabs need to sleep and rest.



Stingray

This is a stingray (above). These are animals that stingrays like to eat (below).



Shrimp



Snail



Mussels



Sand worms

Show the photo and lead the discussion.

What do Stingrays need to live?

Stingrays are totally carnivorous. They do not like to eat vegetables! Yuck! Like most carnivores, they like to eat animals smaller than themselves. They like to eat animals that live on or beneath the sand such as sand worms, snails, mussels and shrimp.

Ask

Is a stingray an omnivore, an herbivore, or a carnivore? Why?

Example: Since stingrays only like to eat other animals, they are carnivores. Carnivores are animals that only eat other animals.

Ask

What do the photos tell us about what a stingray needs to survive?

Example: I see different types of food that stingrays like to eat. Stingrays need to eat. I see gills behind the stingray's eyes. Stingrays breathe water through their gills to get oxygen!

Explain

Stingrays are very different from you and I, but stingrays need many of the same things that you and I do to live and grow.

Ask

What you think a stingray needs to live and grow?

Listen to your students' ideas. Ask them to take a close look at the photos to see if they can tell what a stingray needs. Walk around to show them the photo or put the photo up on your projector or smart board.

Explain

A stingray needs food. We can see that a stingray has eyes to find food. A stingray also needs warmth. Stingrays cannot live in an icy place! Stingrays need oxygen to breathe. They can breathe underwater with gills. Stingrays need water. Stingrays need to sleep and rest too.

Brown Pelicans



This pelican is resting (above).

These pelicans are eating fish (below).



Show the photo and lead the discussion.

What do Pelicans need to live?

Pelicans are carnivores because they only like to eat other critters. They mostly eat fish, but they also like to eat insects, small turtles, other birds, and even small mammals.

Ask

Is a pelican an omnivore, an herbivore, or a carnivore? Why?

Example: Since pelicans only like to eat other animals, they are carnivores. Carnivores are animals that eat both plants and other animals.

Ask

What do the photos tell us about what a pelican needs to survive?

Example: I see a pelican eating a fish. Pelicans need to eat. I see a pelican resting. Pelicans need rest too! I see that a pelican has a mouth, or a beak. Pelicans breathe through their beak. Pelicans need air!

Explain

Pelicans are very different from you and I, but pelicans need many of the same things that you and I do to live and grow.

Ask

What you think a pelican needs to live and grow?

Listen to your students' ideas. Ask them to take a close look at the photos to see if they can tell what a pelican needs. Walk around to show them the photo or put the photo up on your projector or smart board.

Explain

A pelican needs food, water, air, warmth, and sleep to live and grow.



Show the photo and lead the discussion.

What do Kelp and seagrass need?

All plants need sunlight and water to live. They make their own food and energy using the sun's light. Although these plants live underwater, they still need to breathe oxygen, similar to plants that live on land.

Explain

Plants are living things too! Plants need many of the same things to live and grow that you do.

Ask

What you think a plant needs to live and grow?

Listen to your students' ideas. Ask them to take a close look at the photos to see if they can tell what a plant needs. Walk around to show them the photo or put the photo up on your projector or smart board.

Explain

Plants need food and energy to grow. We can see that a plant does not have a mouth to eat food. So how does a plant get its food and energy? It makes its own food using water and the sun's light. A plant also needs warmth. These plants cannot live in an icy place! These plants need air to survive, and they breathe through their leaves. Oxygen is in the water. These plants need to rest at night after working hard in the sun each day.