

# HEALTHY VS. BLEACHED REEFS

Look closely at the difference between the healthy and bleached reef. What do you notice? The healthy coral gets its vibrant colors from a type of algae called zooxanthellae. The algae and the coral have a mutualistic relationship: the coral provides the algae with protection and nutrients for photosynthesis, and the algae provide coral with food from photosynthesis. However, warming waters caused by climate change will cause the coral to expel the algae.

**WHAT DO YOU THINK HAPPENED TO THE ALGAE IN THE BLEACHED REEF? WHAT DOES THAT MEAN FOR THE CORAL?**

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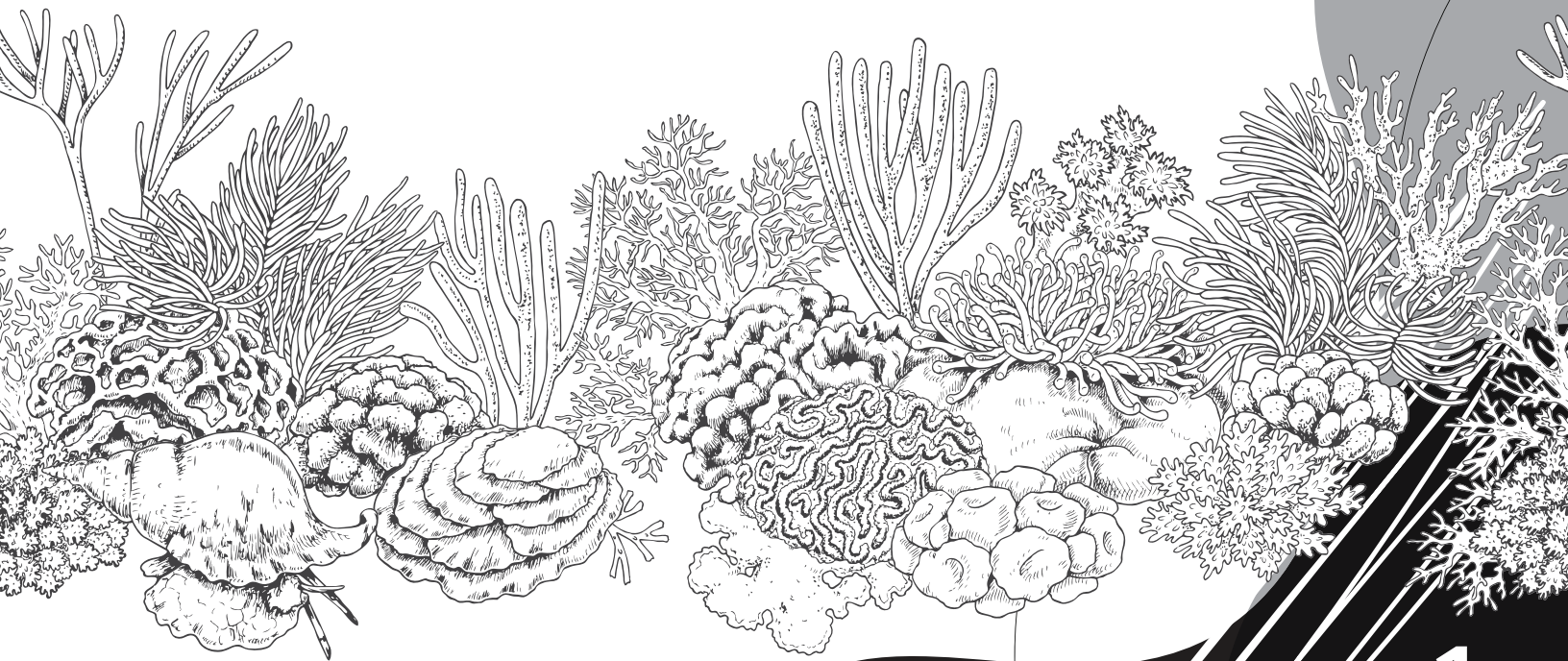
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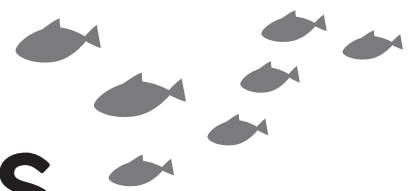
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# SHARK SHORES

What emotions do you feel when you see these sharks?

People often feel nervous around sharks because they are often portrayed as scary or dangerous in movies or media. In reality, shark attacks are incredibly rare, and sharks are actually very important to the ocean! They keep the ocean food web balanced and their health indicates the overall health of the ecosystem.

Imagine that white sharks were removed from the ocean food web.

**WHAT WOULD HAPPEN TO THEIR PREY (SEALS AND SEA LIONS)?**

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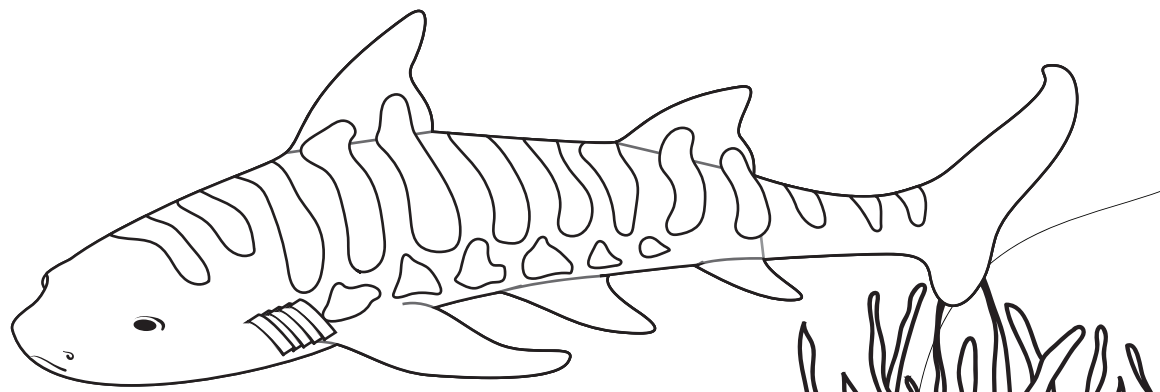
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**WHAT WOULD THEN HAPPEN TO THE FISH THAT SEALS AND SEA LIONS EAT?**

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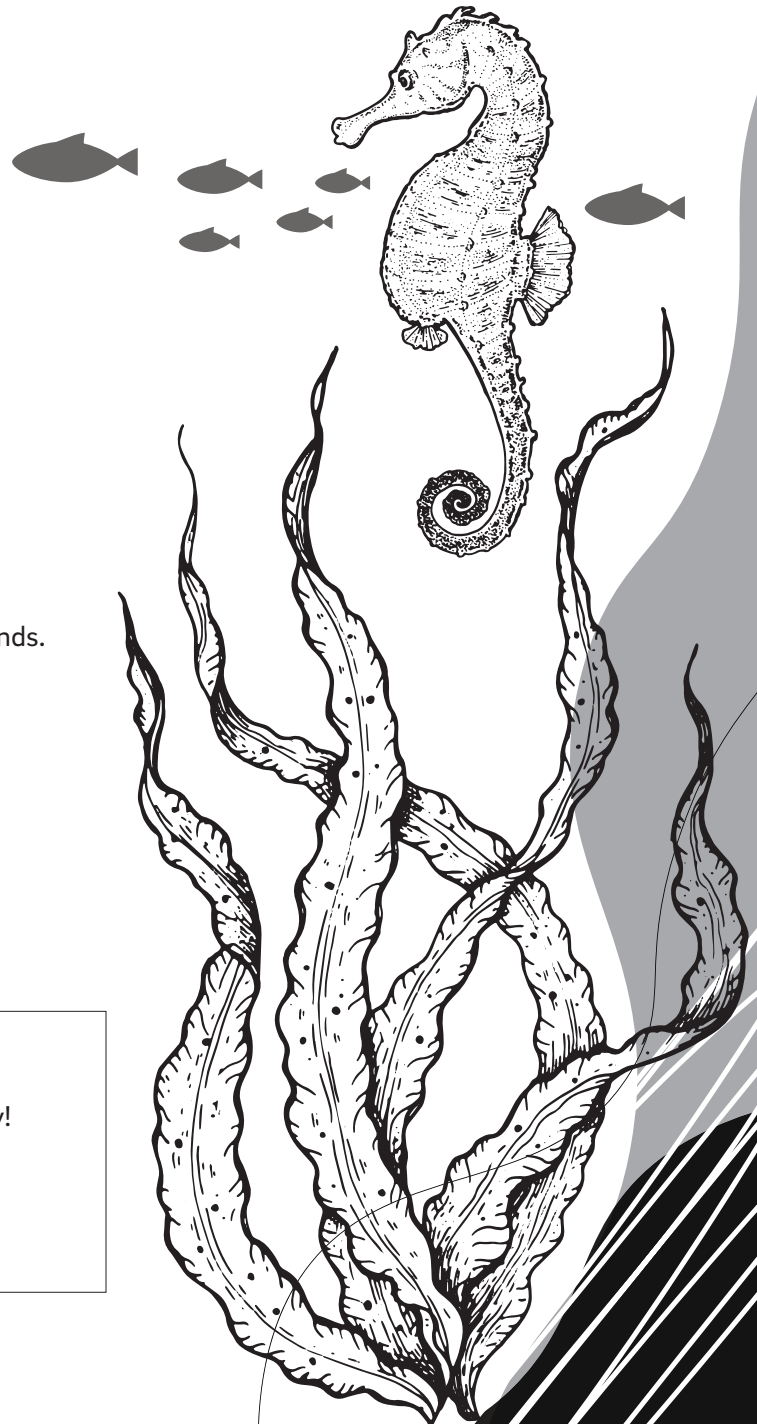
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# SEADRAGONS + SEAHORSES

Seadragons and seahorses have unique characteristics that help them reproduce  
Find the answers to the questions below around the exhibit to reveal a fun fact.

- The \_\_\_ seahorses get pregnant, which differs from most of the animal kingdom.  
P. Male                      Q. Female
- Female seahorses transfer their eggs to the male's \_\_\_\_ after an elaborate mating ritual.  
D. Tail                      E. Pouch  
F. Fins                      G. Gills
- Female seadragons transfer their eggs to the male's \_\_\_\_ after an elaborate mating ritual.  
E. Tail                      F. Pouch  
G. Fins                      H. Gills
- \_\_\_ greetings help seahorses form long-lasting bonds.  
P. Weekly                      Q. Monthly  
R. Yearly                      S. Daily
- Male seahorses remain pregnant for up to \_\_\_\_.  
L. 4 Weeks                      M. 2 Weeks  
N. 10 Weeks                      O. 4 Days



Seahorses have this kind of tail, which is adapted to grasp and hold onto objects, similar to a monkey!

\_ R \_ H \_ N \_ I \_ E  
1 2 3 4 5 6 7 8 9 10

# BEYSTER FAMILY LITTLE BLUE PENGUINS

Look at the life cycle chart to the right to see how penguins tend to spend their time over the course of a year. Then, observe the penguins for a few minutes.

## WHAT BEHAVIORS DO YOU OBSERVE? (Circle all that apply)

### **SOcialIZING:**

Penguins spend their time swimming and feeding together.

### **EGGS:**

Eggs are laid, both penguins take turns sitting on the eggs to incubate them.

### **COURTSHIP:**

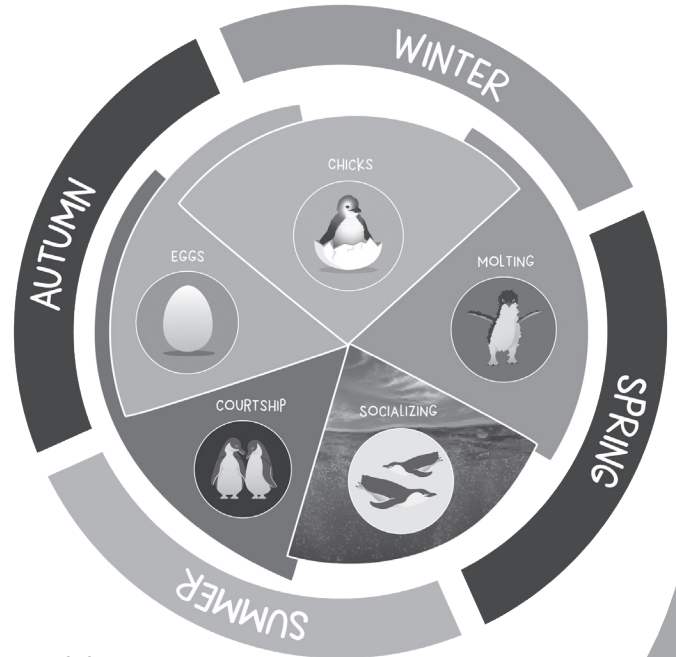
Male penguins will do courtship displays to attract females and start building nests.

### **MOLTING:**

Once a year, penguins molt all of their feathers and grow back new ones.

### **CHICKS:**

Parents will care for and feed their young chick.



The effects of climate change can negatively impact the penguins and their habitat. Use exhibit signage to answer the following questions.

## WHAT WAYS DOES OUR WARMING PLANET AFFECT PENGUINS?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Read how the community came together in New Zealand to protect penguins from the effects of climate change, like flooding. What effects of climate change have you felt in your own community?

## CIRCLE ANY OF THE EFFECTS BELOW THAT YOU HAVE NOTICED:

- |                      |                |                |
|----------------------|----------------|----------------|
| Extreme temperatures | Flooding       | Drought        |
| Increased fires      | Warming oceans | Sea level rise |
| Extreme weather      | Other: _____   |                |

What climate action can you take to help your community? Choose an action from the exhibit or come up with your own!

### I CAN HELP MY COMMUNITY FIGHT CLIMATE CHANGE BY:

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