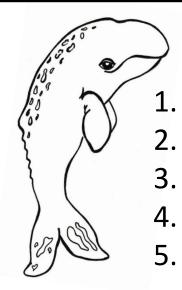
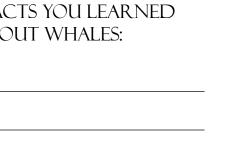
#### THIS CERTIFICATE OF ACHIEVEMENT IS BEING AWARDED TO:

#### FOR SUCCESSFUL COMPLETION OF WHALES OF THE SALISH SEA JR. AND IS HERE BY CONSIDERED A JUNIOR MARINE NATURALIST





**5 FUN FACTS YOU LEARNED ABOUT WHALES:** 













### CHARACTERS THAT WILL GUIDE YOU THROUGH THIS BOOK

ÓRA

Ora is a fish-eating orca that belongs to the Southern Resident community of orcas.

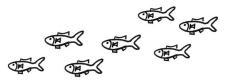


## GARY

Gary is a gray whale that spends winters in Baja, Mexico, visits the Salish Sea in the spring, and then makes the rest of the trip back up to Alaskan waters for the summer. His favorite springtime spot is Saratoga Passage, the waters between Whidbey Island and Camano Island in Washington State.

## MORESBY

Moresby is a minke whale (pronounced mink-e) that spends part of the year in the Salish Sea looking for small forage fish to eat. He's a very shy guy!



## HALIA

Halia (pronounced ha-lee-ah) is a humpback whale that spends the summer in the Salish Sea and then migrates to Hawaii to spend the winter there. All the food she eats in the Salish Sea will help her survive the winter when she's not eating anything!

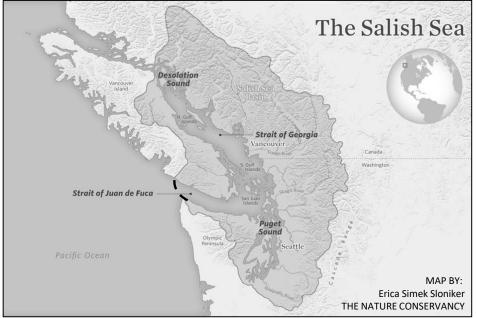
## BLITZ

Blitz is a Bigg's orca, the kind of orca who eats small marine mammals like seals, sea lions, and porpoise. Blitz and Ora avoid each other and stick to their own separate family groups and cultures.



Characters & Illustrations: Amanda Colbert

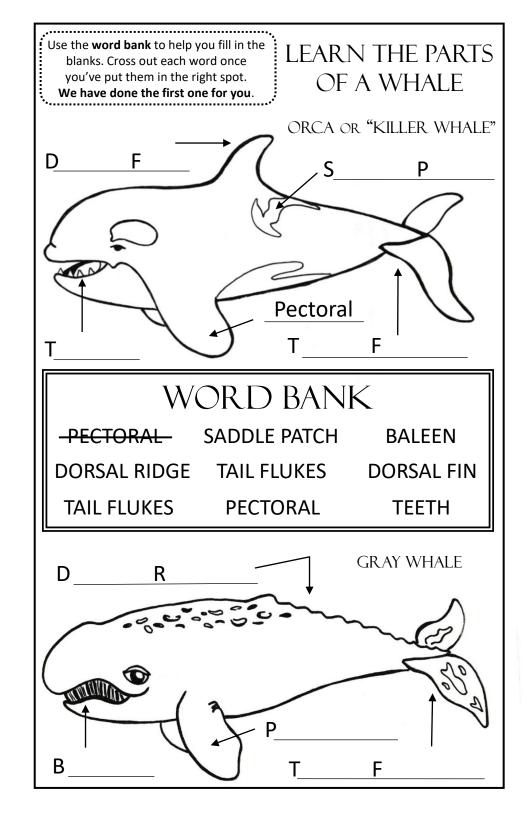
## WHAT IS THE SALISH SEA AND WHERE IS IT?



- The Salish Sea (pronounced Say-lish) is a unique and special place.
- This Sea is made up of three large, interior bodies of water:
  - The Strait of Juan de Fuca (pronounced: wan-da-fyu-cah)
  - Puget Sound (pronounced Pyu-jet)
  - The Strait of Georgia
- The Salish Sea also includes all the rivers that flow directly into it (everything you see inside the boundary line). The fresh water, coming from the snow melt in the mountains, mixes with the sea water, making the Salish Sea slightly less salty than the Pacific Ocean. This fresh water also carries a lot of important nutrients into the Salish Sea. Those nutrients support all the creatures that live in, and around, the water.
- The Salish Sea is located in both the United States and Canada!
  - Can you name the state? W\_
  - Can you name the Canadian Province?

В

Do you live somewhere that falls inside the Salish Sea Boundary? If you do, draw a 🖤 where you live. If you don't, draw a 🗙 on the map at someplace you'd like to visit.

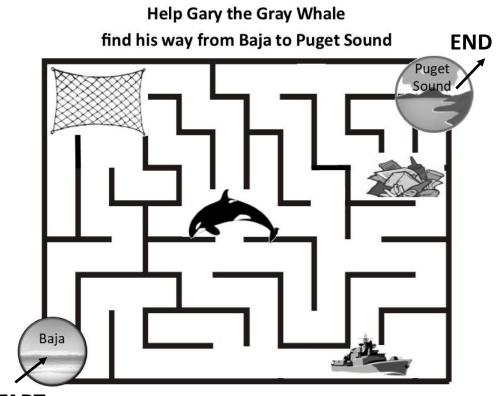


## GRAY WHALES

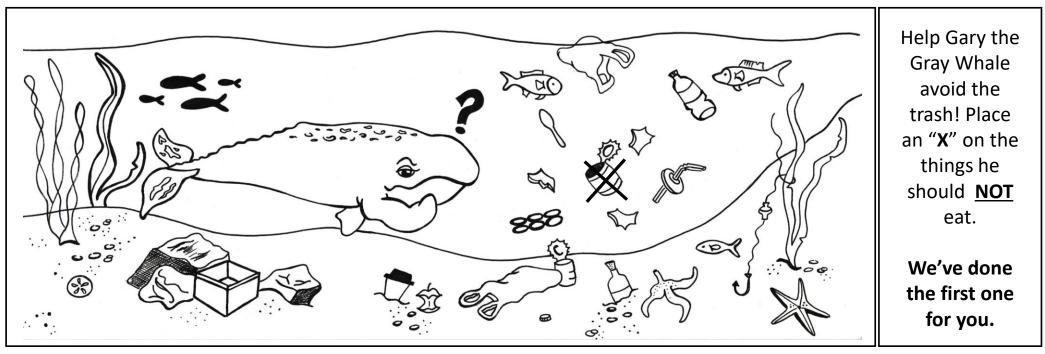
#### UNSCRAMBLE THE WORDS TO FINISH THE PARAGRAPH!

Instead of teeth, gray whales filter feed with their **B**\_\_\_\_\_ (el**b**ena) which is made of **K**\_\_\_\_\_\_ (iner**k**at), the same substance as your fingernails and hair. They are bottom feeders, sifting small animals like **S**\_\_\_\_\_\_ (hmrpi**s**) from the mud. Each year they complete the longest **M**\_\_\_\_\_\_ (ti**m**roniag) of any **M**\_\_\_\_\_\_ (l**m**amam), traveling up to 14,000 miles round trip between **F**\_\_\_\_\_\_ (dege**f**ni) grounds in the Arctic, and Baja Mexico where they mate and give birth to their **C**\_\_\_\_\_\_ (vlsa**c**e).

## **Gray Whale Migration Maze**



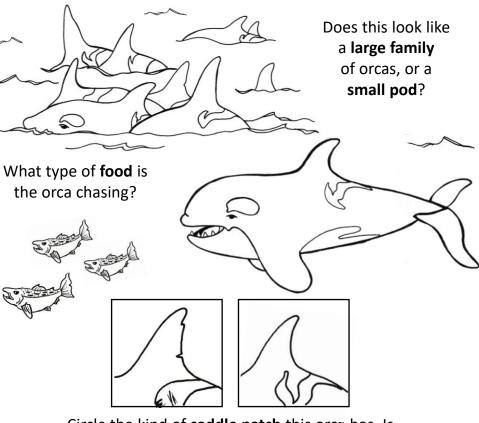
**START** 



## ORCAS

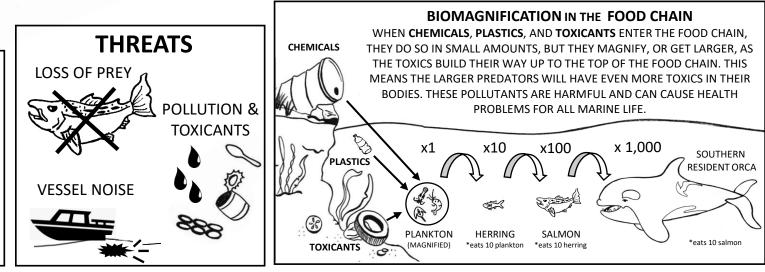
extinct, we cannot bring them back.

**UNSCRAMBLE THE WORDS TO FINISH THE PARAGRAPH!** There are two types of orcas, or killer whales, in the Salish Sea. **R** \_ \_ \_ \_ (driesten) orcas eat only fish and live in big <u>**F**</u>\_\_\_\_ (isla<u>f</u>mie). Bigg's, or transient, orcas eat only M <u>M</u>\_\_\_\_ (r<u>m</u>anei <u>m</u>lamsma) and live in smaller **P** (dos**p**). These two types of orcas **L**\_\_\_(oklo) and **S**\_\_\_\_(nsudo) different from each other. Which of these two types of orcas is **E** \_ \_ \_ \_ (dna**e**dregne)? Do you know why? Help Gary the Gray Whale figure out if he's found a Resident orca or a Bigg's orca! Look at the clues to help you make your decision. Who are they? THREATS CHEMICALS **ENDANGERED** LOSS OF PREY When a population of animals has POLLUTION & lost a lot of individuals, they are TOXICANTS endangered. Endangered means their population is at risk of PLASTICS disappearing forever. If that **VESSEL NOISE** population does not recover and disappears, it would then be extinct. Once a species, or population, goes



Circle the kind of **saddle patch** this orca has. Is her **dorsal fin pointy** or **rounded on top**?

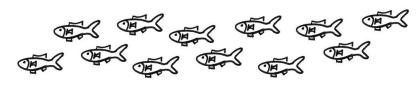
<u>orcas</u>



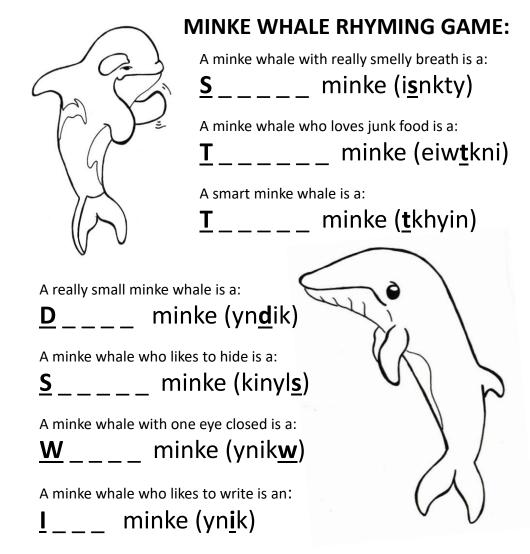
# MINKE WHALES

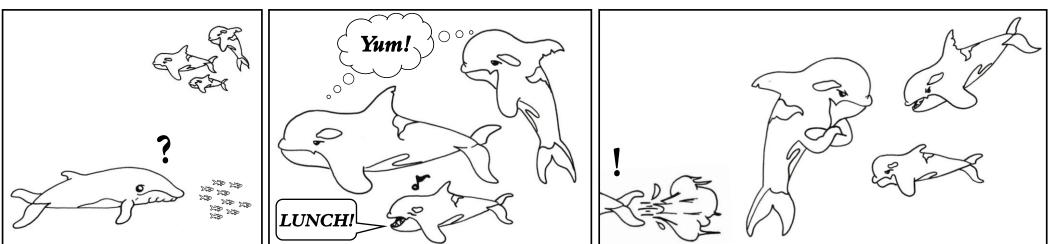
#### UNSCRAMBLE THE WORDS TO FINISH THE PARAGRAPH!

Minke whales are small  $\underline{B}$  \_\_\_\_\_ (nelae $\underline{b}$ ) whales that are about the same size as an orca. Each summer they visit the Salish Sea to feed on  $\underline{H}$  \_\_\_\_\_ (rnger<u>h</u>i) and other  $\underline{F}$  \_\_\_\_ (hi<u>f</u>s). Some minke whales have figured out an interesting way to find their food. They look for  $\underline{B}$  \_\_\_\_\_ (dri<u>b</u>s) who are feeding on big bait balls of fish, and then come up underneath and grab a  $\underline{M}$  \_\_\_\_\_ (tul<u>m</u>fohu) for themselves.



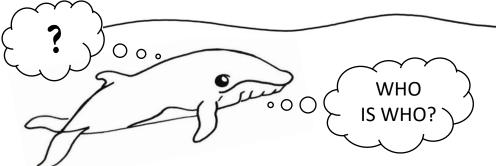
ONE OF THE THREATS TO MINKE WHALES IN THE SALISH SEA IS ILLUSTRATED BELOW. EVEN THOUGH BIGG'S ORCAS USUALLY LOOK FOR SEALS, SEA LIONS, AND PORPOISE, THEY SOMETIMES HUNT FOR MINKE, TOO! BUT BIGG'S ORCAS **CAN ONLY BE SUCCESSFUL IF THEY CAN BE QUIET!** 



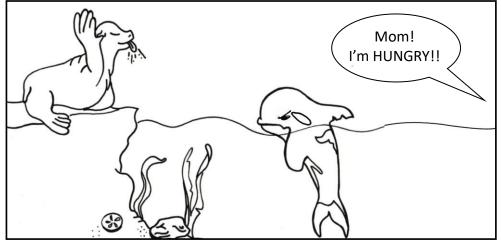


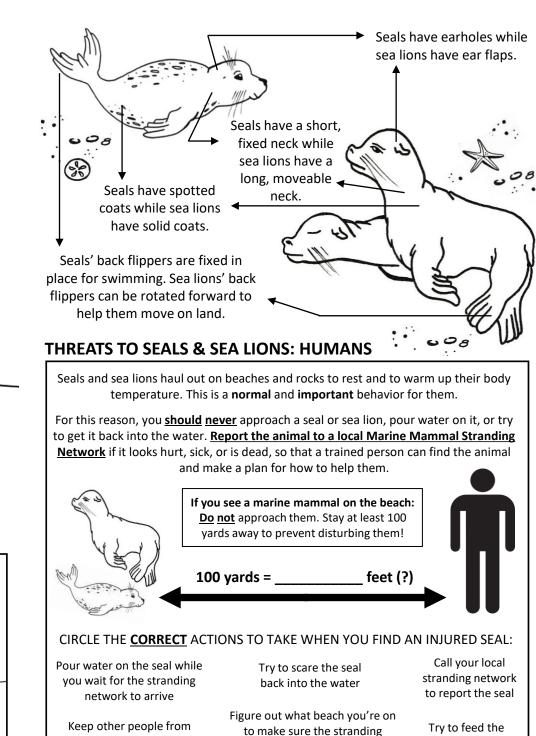
### PINNIPEDS - SALISH SEA SEALS & SEA LIONS

UNSCRAMBLE THE WORDS TO FINISH THE PARAGRAPH! Pinnipeds, which means "fin-footed", are a group of marine mammals that have <u>F</u>\_\_\_\_\_ (pli<u>f</u>prse) for feet. They spend part of their time in the <u>W</u>\_\_\_\_\_ (er<u>w</u>ta) and part on land. There are four Pinniped <u>S</u>\_\_\_\_\_ (secip<u>s</u>e) in the Salish Sea - the <u>H</u>\_\_\_\_\_ <u>S</u>\_\_\_ (r<u>h</u>baor la<u>s</u>e), the <u>E</u>\_\_\_\_\_ (pl<u>e</u>nhtea) seal, the <u>C</u>\_\_\_\_\_ (fial<u>c</u>nroia) sea lion and the <u>S</u>\_\_\_\_\_ (rel<u>s</u>lte) sea lion. Do you know what the differences are between seals and sea lions?



#### THREATS TO SEALS & SEA LIONS: BIGG'S ORCAS





network can find the seal

To report sick, injured, beached or dead marine mammals (including live stranded and/or beached porpoise & whales): Call - 866-ORCANET <u>or</u> Email - info@orcanetwork.org

getting too close to the seal

For more information, go to: www.nmfs.noaa.gov and www.orcanetwork.org/strandings.html

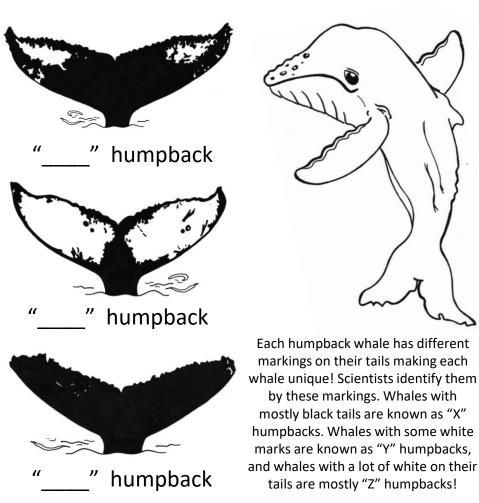
hurt seal bread

## HUMPBACK WHALES

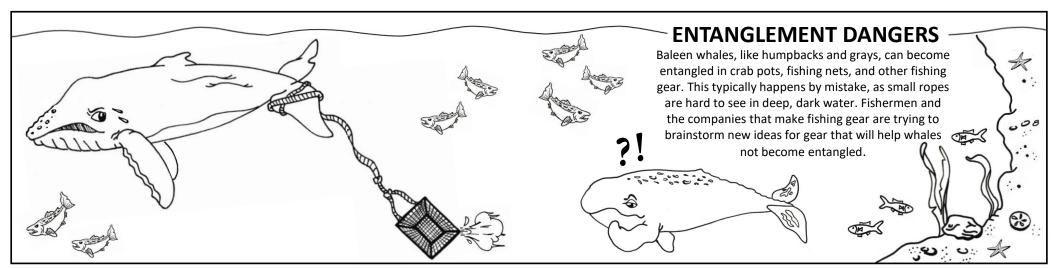
UNSCRAMBLE THE WORDS TO FINISH THE PARAGRAPH! Humpback whales have many T\_\_\_\_\_\_ G\_\_\_\_\_\_ (athrot oevgors) that expand when they take a gulp of W\_\_\_\_\_\_ (etawr) to F\_\_\_\_\_\_ (iftlre) fish and krill through their baleen. Some of them L\_\_\_\_\_\_ (ngule) through the water to catch their fish, and some work together to trap fish in a net made of B\_\_\_\_\_\_ (lbebusb). Many humpback whales return to the Salish Sea each S\_\_\_\_\_\_ (mrusme) after spending the winter in H\_\_\_\_\_ (iwahia) and M\_\_\_\_\_ (eomxci).

**DID YOU KNOW?** The humpback was given its common name because when they bend their body to dive deep, you can see a hump form just before their dorsal fin.





Look at the humpback tail flukes and help Halia the Humpback decide which tail is an "X" tail, "Y" tail, or "Z" tail!



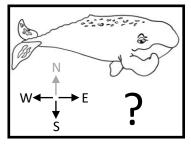
#### HAVE YOU SEEN WHALES?

Call 866-ORCANET, or email info@orcanetwork.org, or report directly to us on our Facebook Page: Orca Network

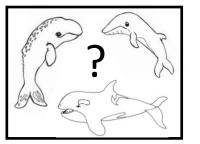
#### Here's what should be included in your report:



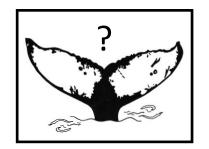
1. The location of the whales; then where you are reporting from & what time you had your sighting. Include the date.



3. What direction were they going?



2. What type of whale & how many of them? \*If you're seeing orcas, how many males (large dorsal fins)?



4. Any behaviors to note?(chasing prey, traveling fast, jumping, splashing, etc.)

**Now you try one!** Look at the scene on the next page and fill in the blanks to report what you are seeing. We've filled the first one out for you.

1. Location, Time, and Date:
Lime Kiln State Park Lighthouse,
2:38pm on Saturday July 5th, 2019

2. Type of whale? How many?

4. Any behaviors to note?

How many, large male dorsal fins?

### My Whale Dream (Madlibs)

Last night I had a dream that I was floating on a(n) Salish Sea. (color) There were \_\_\_\_\_\_\_ soaring over my head, and \_\_\_\_\_\_ (type of bird) (type of fish) in the water. I was the only human out there. Suddenly I was surrounded by whales! There were \_\_\_\_\_\_ of them, and \_\_\_\_\_ (type of whale from this book) , the leader of these whales, asked me if I could help (name) them find \_\_\_\_\_\_. I said yes! We had to dodge some \_\_\_\_\_\_ (type of food) (pollution) but no one got hurt, thankfully! We finally found their food! They were just about to share with me when I woke up! What a \_\_\_\_ dream! I will always (adjective) whales! remember those (adjective) UGH! LUNCH!

