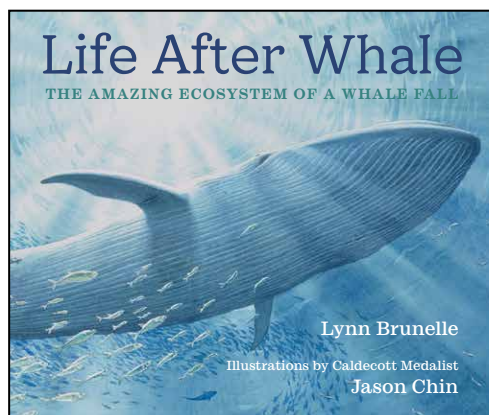


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Life After Whale

THE AMAZING ECOSYSTEM OF A WHALE FALL



Follow a blue whale's enormous body to the bottom of the ocean, where it sets the stage for a bustling new ecosystem to flourish.

Caldecott Medalist JASON CHIN's astonishing artwork paired with four-time Emmy Award-winning writer LYNN BRUNELLE's finely researched text takes readers on the remarkable journey of a whale fall.

★ “[An] amazing picture book . . . seamlessly integrates technical vocabulary, marine biology, and chemistry; Chin’s meticulous watercolor illustrations carefully align and support the text.” —*Booklist*

★ “Brunelle’s prose is both lucid and poetic, while Caldecott-winning illustrator Chin depicts all of these changes in precise but lyrical ways. . . . Grand and engrossing.” —*Kirkus Reviews*

★ “A brilliant exposition of the way that populations grow and are sustained.” —*Publishers Weekly*

★ “Exquisite.” —*Horn Book*

What’s included in this kit:

- WHALE FALL FASCINATING FACTS
- DELVE DEEP INTO THE SEA with this crossword puzzle
- Unscramble words from LIFE AFTER WHALE
- How big is a BLUE WHALE?
- How do BLUE WHALES eat?
- OCEAN ZONES Activity

Meet the creators:

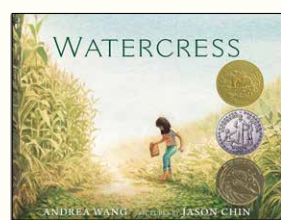


LYNN BRUNELLE is a four-time Emmy Award-winning writer for *Bill Nye the Science Guy*, the author of the bestselling books *Pop Bottle Science* and *Camp Out!*, among many others, and a former K–12 teacher. A trusted science communicator, she has been featured on numerous TV and radio shows, contributed to magazines and podcasts, given a TED Talk, and spoken before the UN about girls and STEM education.

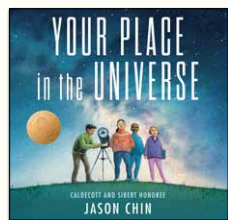


JASON CHIN is a celebrated author and illustrator of children’s books. He received the Caldecott Medal for his illustrations in Andrea Wang’s *Watercress*, a Newbery Honor book and APALA Award winner. His book *Grand Canyon* was awarded a Caldecott Honor, a Sibert Honor, and the NCTE Orbis Pictus Award. Some of his other acclaimed nonfiction titles are *Your Place in the Universe* and *The Universe in You*.

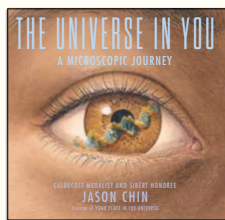
More books by Jason Chin



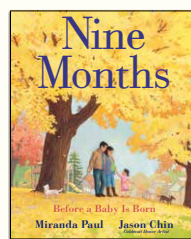
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WHALE FALL FASCINATING FACTS!

How many questions can you answer about a whale's life cycle?



1. Blue whales can be found in all the oceans except for _____.

2. What is the biggest animal to ever live on Earth?

3. What element allows blue whales to get so big?

4. How much does a blue whale eat in a day?

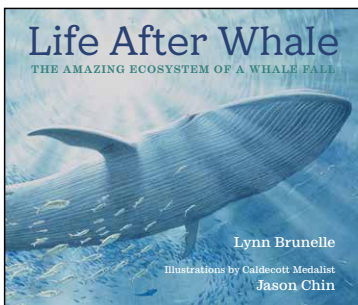
5. A whale's nose is called what?

6. What size is a baby blue whale when born?

7. Is a whale fall an ecosystem?

8. What are the four phases of a whale fall?

- Answers:
1. Arctic Ocean
 2. Blue whales
 3. Water
 4. Up to 16 tons
 5. A blowhole
 6. The size of an elephant
 7. Yes, it's a source of food for organisms
 8. Mobile scavenger, enrichment opportunist, sulfophilic, reef



Life After Whale

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illustrated by JASON CHIN
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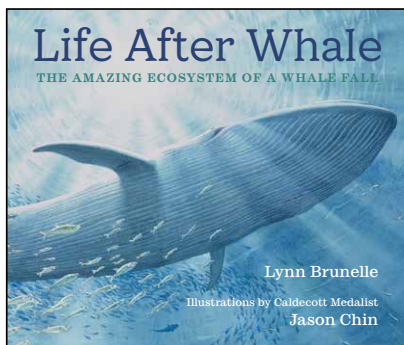
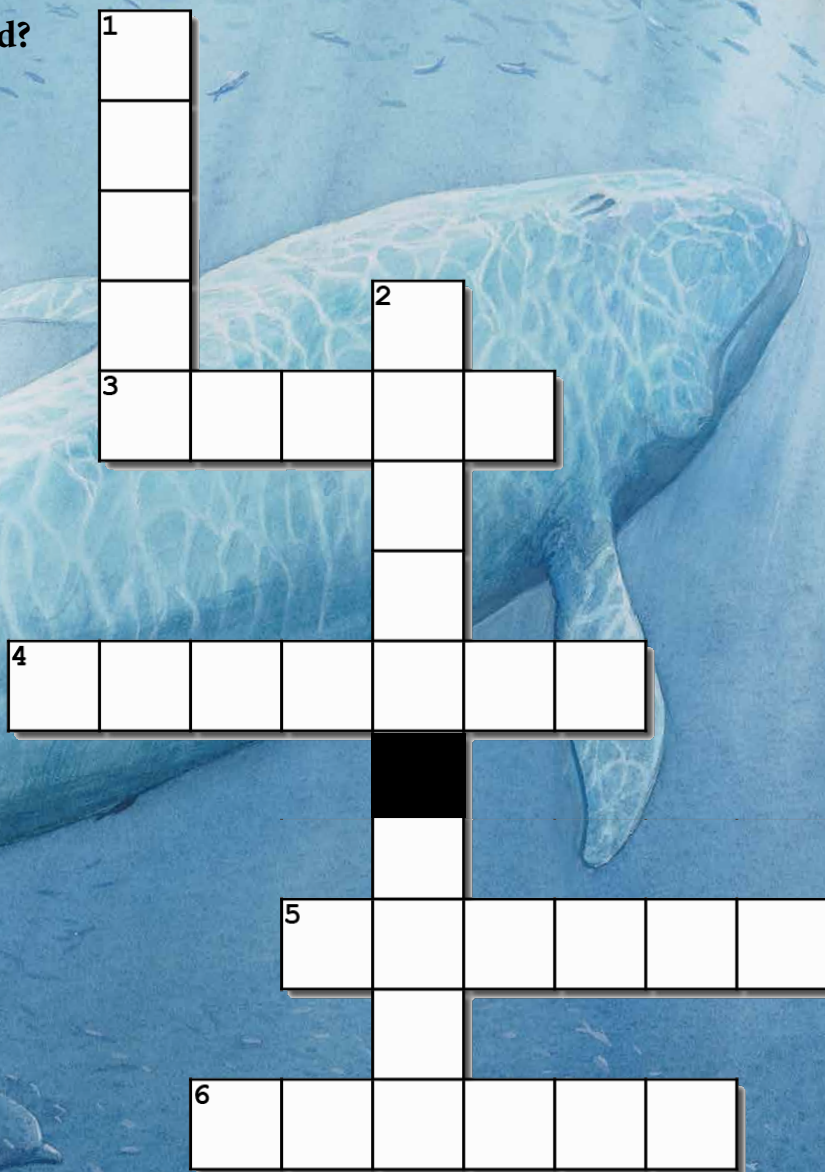
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DELVE DEEP INTO THE SEA

with this crossword puzzle.



1. What are tiny, shrimp-like fish called?
2. The death of a whale is called a _____?
3. Bioluminescence are sparkles of _____.
4. Hagfish have mouths made of _____.
5. The gasses that leak out of the whale are called _____ dioxide and methane.
6. The filter used for whales to eat is called a _____.



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Answers:
 1. Krill 2. Whale Fall 3. Light 4. Suckers
 5. Carbon 6. Baleen

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Unscramble these words from
LIFE AFTER WHALE!



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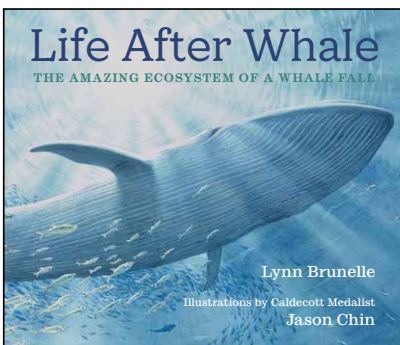
SPUCOTO

SAEPH

NILSA

EGNYHRDO

PESICSE



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Answers:
1. ECOSYSTEM 2. OCTOPUS 3. PHASE
4. SNAIL 5. HYDROGEN 6. SPECIES 9

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More **BLUE WHALE** activities for home!

How big is a BLUE WHALE?

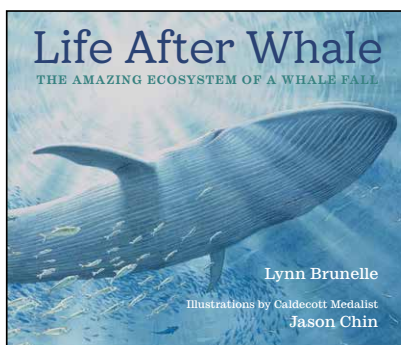
While it may be enough for some people to say a blue whale is 80–90 feet long, what does that look like? Here's how to find out!

- Average arm span of a 5th grader is about 4.5 feet. If you put 20 kids next to each other fingertip-to-fingertip with their arms spread wide you can see how long a blue whale is.
- Measure your arm span, get the average, and then figure out how many kids-long a whale is.
- You can do this with a tape measure as well. Have a friend or caregiver stand at one point and then guess how far away 90 feet is—how long the blue whale is. Then measure and see if you were right!
- A fun activity to do at home on a long sidewalk or even a playground is to make the 90-foot-long mark in chalk and then draw an actual whale drawing around it. Then you can show the measure of a single krill and see the size of the food they eat (about two inches).

How do BLUE WHALES eat?

This is a simple hands-on experiment with a big container of water—a casserole dish can work, and can a clean storage container the size of a litter box.

- Fill it halfway with water and toss a few raisins or marbles into the water.
- Grab a simple hair comb—this is like the baleen of the whale.
- See what you can gather with the comb. This is how whales filter for krill!



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OCEAN ZONES ACTIVITY

Ask a parent or guardian for assistance!



For a cool visual, try this activity. It allows you to layer different liquids on top of each other to show the different zones of the sea.

In the book *Life After Whale* we see that the whale's body sinks through several areas or zones of ocean water with different levels of sunlight. There are organisms that live in each of the ocean zones, but most of them are in the sunlight zone.

What creatures might live in each layer? What might each layer look like and why?

What you need:

- Food coloring
- 1 cup rubbing alcohol (tinted light blue)
- 1 cup cooking oil (tinted dark blue)
- 1 cup water (tinted dark green)
- 1 cup dish soap (tinted purple)
- 1 cup corn syrup (tinted black)
- Funnel: Use a large, clear jar (or a 2L clear plastic bottle with the top cut off—you can use the upside-down top as a funnel)

What you do:

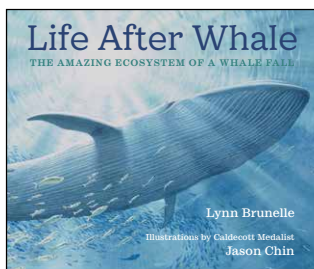
- Carefully pour in the liquids in the following order:
- 1 cup corn syrup (tinted black)
- 1 cup dish soap (tinted purple)
- 1 cup water (tinted dark green)
- 1 cup cooking oil (tinted dark blue)
- 1 cup rubbing alcohol (tinted light blue)

What's going on:

Just like the water in the ocean, there are different densities created by temperature, pressure, and salt content that keep layers separate.

These five layers represent the different ocean depth zones from top to bottom:

1. Sunlight Zone: Rubbing alcohol
2. Twilight Zone: Cooking oil
3. Midnight Zone: Water
4. Abyss Zone: Dish soap
5. Trench Zone—the deepest and darkest—sunlight never reaches here: Corn syrup



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