

Sea Bones

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By Bob Barner

Ages: 5-8; Grades K-3

Themes: Science, Animals

Running Time: 9 minutes

SUMMARY

The sea is full of incredible creatures. Some have backbones and some have no bones! Some are animals that look like plants and others are animals that have no brains. This colorful and fact-full movie will hook students into the world under the sea. They will learn amazing marine information and grow their aquatic vocabulary, all through rich illustration and entertaining rhyme.

Common Core State Standards Connections:

CCSS.ELA-Literacy.CCRA.R.1

Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

CCSS.ELA-Literacy.CCRA.R.3

Analyze how and why individuals, events, or ideas develop and interact over the course of a text.

CCSS.ELA-Literacy.CCRA.R.4

Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.

CCSS.ELA-Literacy.CCRA.R.9

Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take.

OBJECTIVES

- Students will use clues in the movie to make inferences about • Students will use a strategy to learn academic vocabulary.
- Students will compare and contrast sea animals.
- Students will identify and describe sea creatures in order to make an informational mobile.
- Students will identify rhymes.

BEFORE VIEWING ACTIVITIES

Activate students' background knowledge about marine animals.

Guiding questions:

- What animals do you know of that live in the ocean/sea? Scribe students' answers on chart paper.
- What details or facts can you share about any of these animals? How

do they look? What do they eat? What else do you know about them? Scribe students' responses next to the animal's name.

- How are sea animals different from land animals? How are they similar?

Tell students that they will be watching a movie about all different types of animals that live in the sea. Encourage them to watch and listen for information about animals that they may or may not have heard of before.

Preview some of the vocabulary words from the movie: endoskeleton, exoskeleton, vertebrate, invertebrate, tentacles, cartilage.

Consider using the following activity to develop all or some of the words more deeply:

1. Fold a paper into thirds (one paper for each word).
2. Write the word in the left hand column. Read the word aloud.
3. Tell a story, dramatize, or give an example or sentence to explain the meaning of the word.
4. Ask students, "What do you think this word means, based on the story/dramatization/example/sentence?"
5. Give students time to discuss their ideas with partners. Then, have students share out ideas.
6. Scribe students' ideas in the middle column.
7. Using students' ideas, craft a definition of the word. Write that in the middle column also.
8. Ask students what kind of drawing could be used to represent the meaning of the word. Draw one or two of their ideas in the third column.

Depending on students' independent writing ability, they can make their own 3-fold definition papers, or simply write the word and draw a picture. (CCRA.R.4)

Introduce or review rhyming with students. Start with simple rhymes, such as words ending in -at or -ot. Then, introduce some of the words from the movie, such as: sea/me, floor/before, caves/waves. Challenge students to brainstorm other words that rhyme with those. Then, encourage students to watch and listen for rhymes in the movie.

AFTER VIEWING ACTIVITIES

Revisit the vocabulary lesson from the Before Viewing Activities. Replay or read aloud the parts of the movie or book that contain the words endoskeleton, exoskeleton, vertebrate, invertebrate, tentacles, and cartilage. Challenge students to write a sentence using each word under their illustration on the tri-fold that they made before watching the movie. (CCRA.R.4)

Create a sorting game for students to compare and contrast the animals from the movies. Print out pictures of each animal and glue them onto index cards. Make enough copies that each pair of students in the class can have one set of cards. Then, use the informational chart in the back

of the book or the information from the movie to designate categories for the sort. For example, the first category could be "Vertebrates and Invertebrates." Students should work together to sort their pictures. Call out the answers to the sort so that students can check their work, then have them reshuffle their cards and move into the next category. As an extension, students can write a list after each sort and compare their lists to see if they can make any broader connections between the categories. (CCRA.R.1; CCRA.R.3)

Review the animals from the movie: blue whales, coral, crabs, jellies, anemones, sharks, and seals. Reread or replay the descriptions of each of these animals found throughout or on the chart in the back of the book, Sea Bones, and/or use nonfiction texts or the internet to provide students with more information about each of these animals. Give students a graphic organizer in which they can record facts about each animal. For example:

	Picture/ Illustration	How it eats	Protection	Other Facts
Blue whales				
Coral				
Crabs				
Jellies				
Anemones				
Sharks				
Seals				

After students record their information in the organizer, they can make a mobile with each creature represented. On one side of an index card or cardstock cut-out shape, they can draw or glue on a picture of the animal. On the other side they can list 3 facts. Attach these all to a hanger with string to make a mobile. Encourage students to add more sea animals to their mobile that they research independently, such as some of the other animals in the movie. (CCRA.R.1; CCRA.R.3; CCRA.R.9)

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