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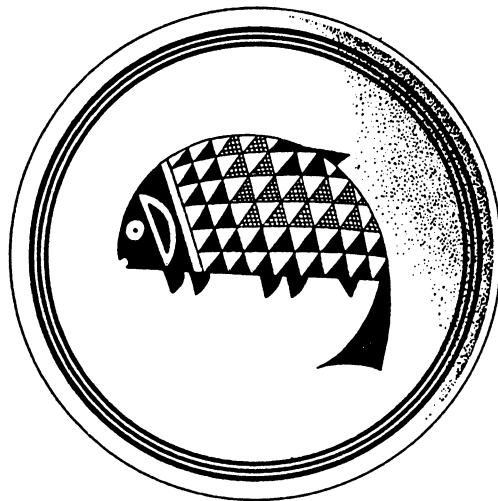
A WORD TO THE TEACHER

Marine Biology

From the smallest plankton to the most massive whales, marine biology is the study of the flora and fauna, the living creatures of the ocean.

The study of marine biology includes the delicate inter-relationships between the organisms that make up the complex patterns of the food chains, the ecology of the sea. The sea remains a major source of food. As the earth becomes more and more populated, conserving the life support system of the sea becomes a serious concern.

Careers in marine biology and related fields are fascinating to many young people today. Much of the sea still remains a mystery, but new instruments for drilling and dredging the ocean floor make the sea one of the world's remaining frontiers.



INTEREST DEVELOPMENT CENTER

Marine Biology

The purpose of this interest center is to stimulate interest in the topic area. Students need time for browsing and investigating for maximum benefit. These are beginning ideas . . . you and your students will think of more . . . let parents and other teachers know more about the center, and it will grow many times without effort.

Books and posters

Sea life

Sailing myths

Tropical fish

Jacques Cousteau

Aquarium building

Shell identification

Sea exploration

Ecology of the sea

Songs of the sea

Mermaids

Fishing guides

Be sure to include books above grade level.

Art Supplies

Water colors, chalk, oil pastels, polyform, clay, markers, and various textures of paper.

Songs and Sounds of the Sea

Paul Winter: "Callings, Celebration of the Voices of the Sea"

David Blonski: "Dance of the Dolphin"

Claude Debussy "Nocturnes from Serenes" and "La Mer"

"Pachelbel Music for Meditation" (Canon in D with ocean)

"Bach for Relaxation" (Air from the Suite in D Major)

Anton Rubenstein: "The Ocean"

Objects and artifacts

Shells and coral

Large box or container of sand

Fishing gear and net

An anchor

Whale bones

Compass

An aquarium

Magnifying glass

Canned foods, products of the sea

Videos, Filmstrips, Loops and Slides

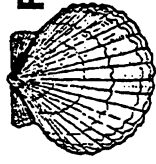
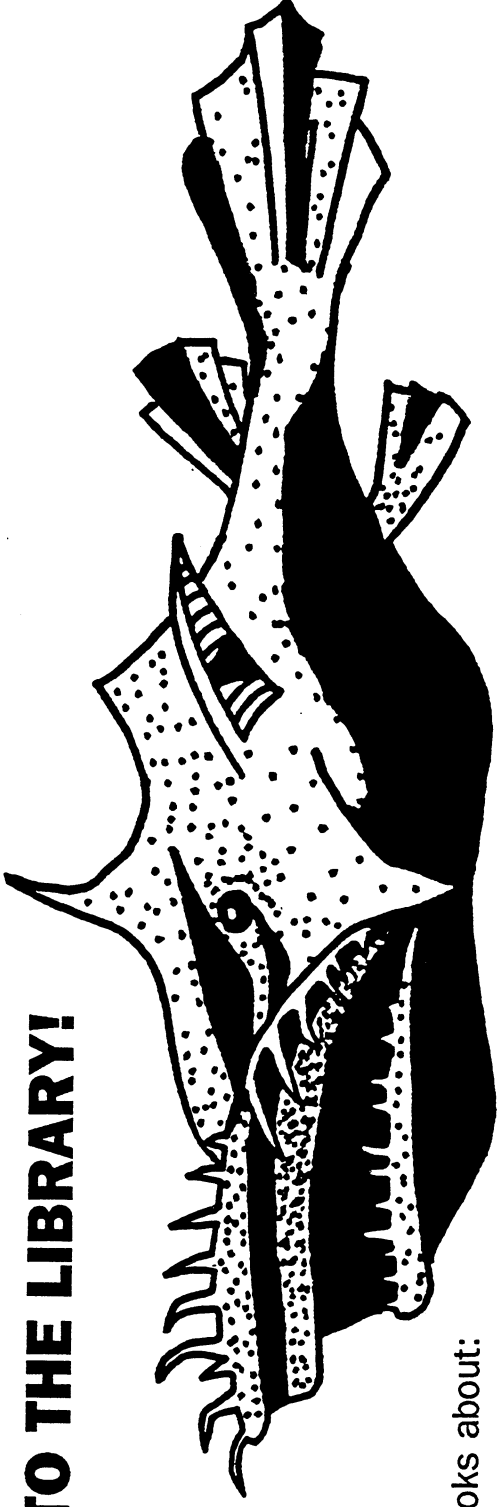
Maps

Globes

Magazines, especially copies of *National Geographic*, oceans, sea magazines, and marine mammals (and other ocean-oriented magazines.)



2 GO . . . TO THE LIBRARY!



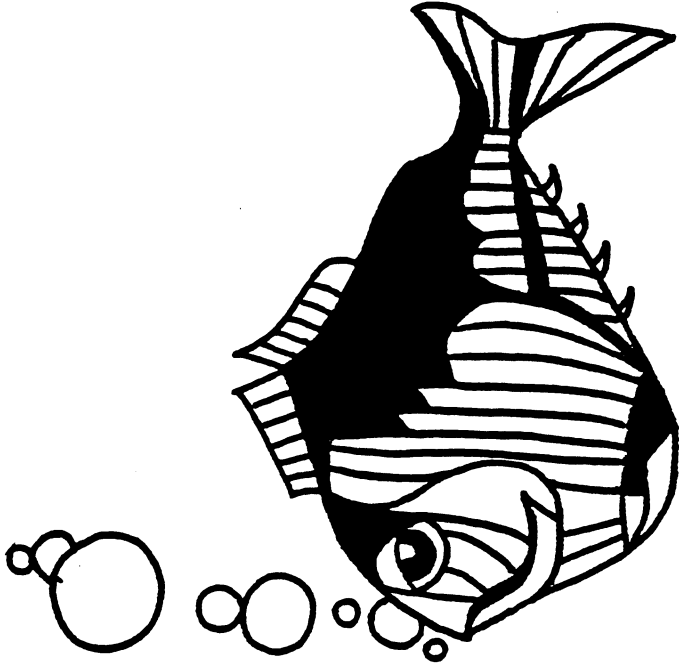
FIND some books about:

- whales and dolphins
- the ocean
- shells
- saltwater fish
- anything else about sea life

NOTICE especially:

- the parts of the sea . . . the reef . . . the abyss
- where different kinds of sealife live
- the sedentary feeders
- poisonous sea animals
- whales and dolphins
- sea shells
- the food chain of the sea
- the life cycle of the salmon

1 SETTING THE STAGE



Have you visited the ocean?

Have you tasted the salty water and breathed in the special smell of the sea?

Have you dug into the wet sand and found the curious creatures there?

Have you seen and felt the shells on the seashore?

Listen to some ocean music . . .

Close your eyes and imagine you are there . . . feel the moist air on your skin . . . (is it warm or cool?) . . . breath in the air . . . let everything you want to see come to your mind . . . notice the colors . . . the smells . . . the sounds . . .



DESCRIBE your experience without using words. Instead, use gestures and music mimicking the sounds of the ocean.

PERFORM your pantomime in front of friends using a background of color. Invite others to share their nonverbal experiences. Remember to include feelings in your interpretations.