

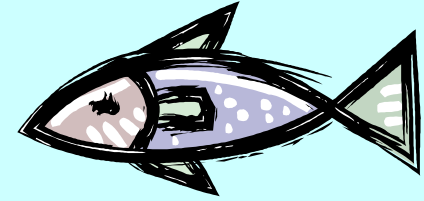
Gulf of Maine Unit



South Portland 5th Grade Science

Developed by Faculty
Contributions by Doug Caldwell & Jen Stanbro
South Portland Public Schools
Maine

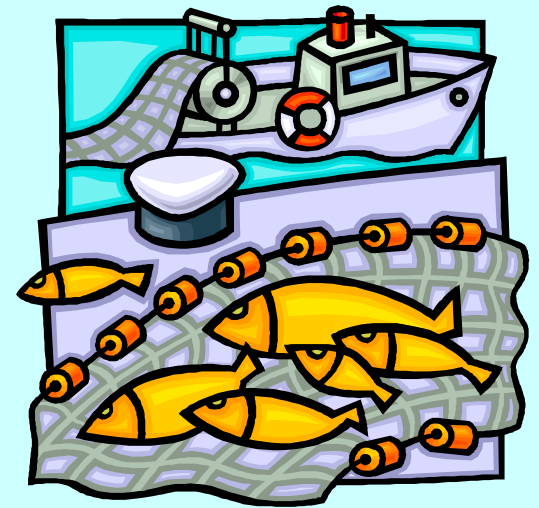
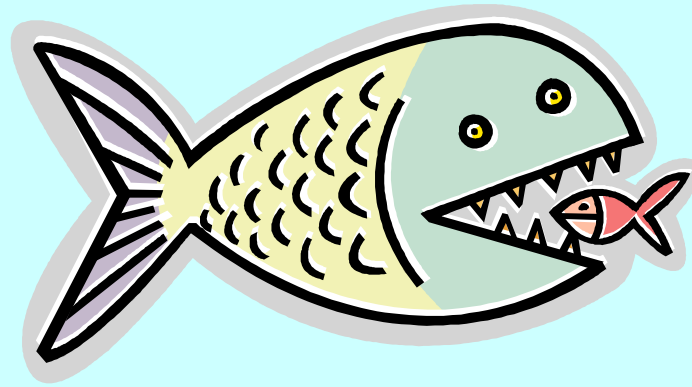
Goals



- Meet Learning Results Science Standards
- Extend excitement about the Gulf of Maine ignited by the visit to Kohn Center
- Incorporate multi-sensory learning opportunities for diverse students
- Collaborate with teacher librarians on information literacy skills instruction

Concept Support Lessons

- Food Web
- Adaptations
- Changing Environment
- Ocean Geography



Hopamyboatawillfloata



Experiential Science
Simulation

By Doug Caldwell

Small Elementary School
South Portland, ME



Mr. & Mrs. Fish



Guest Marine Educators
Jeff & Deb Sandler
Mr. & Mrs. Fish Marine Education
Program



Gulf of Maine Project Site

[Information Literacy Project Pages](#)



Gulf of Maine Species Database

Microsoft Access - [Organisms Form]

File Edit View Insert Format Records Tools Window Help


Type a question for help

Arial 14

Common name
Aquatic Environment
Alewife
Gulf of Maine

Habitat
in shore and off shore fresh water and saltwater

Description
silvery body on the bottom on the top gray green skinny body with forked tail fin



Predators
humans, ospreys ,seagulls, terns, cod, humpback whale, bald eagles, skates

Diet
Phytoplankton

Adaptive Features/Behaviors
it doesn't use a lot of energy to catch food, they are fusiforms so they move swiftly, they are counter shaded so they confuse predators

Contributing scientist
doctor olivia

Teacher Name
Kandoian

Record: 1 of 44

Enter the most common name, not scientific name, of your organism in this field.

NUM

start

N... MI... Pr... N... M... So... G... Or... 11:23 AM

Gulf of Maine Species Database

Microsoft Access - [Organisms Form]

Type a question for help

Predators Arial 10

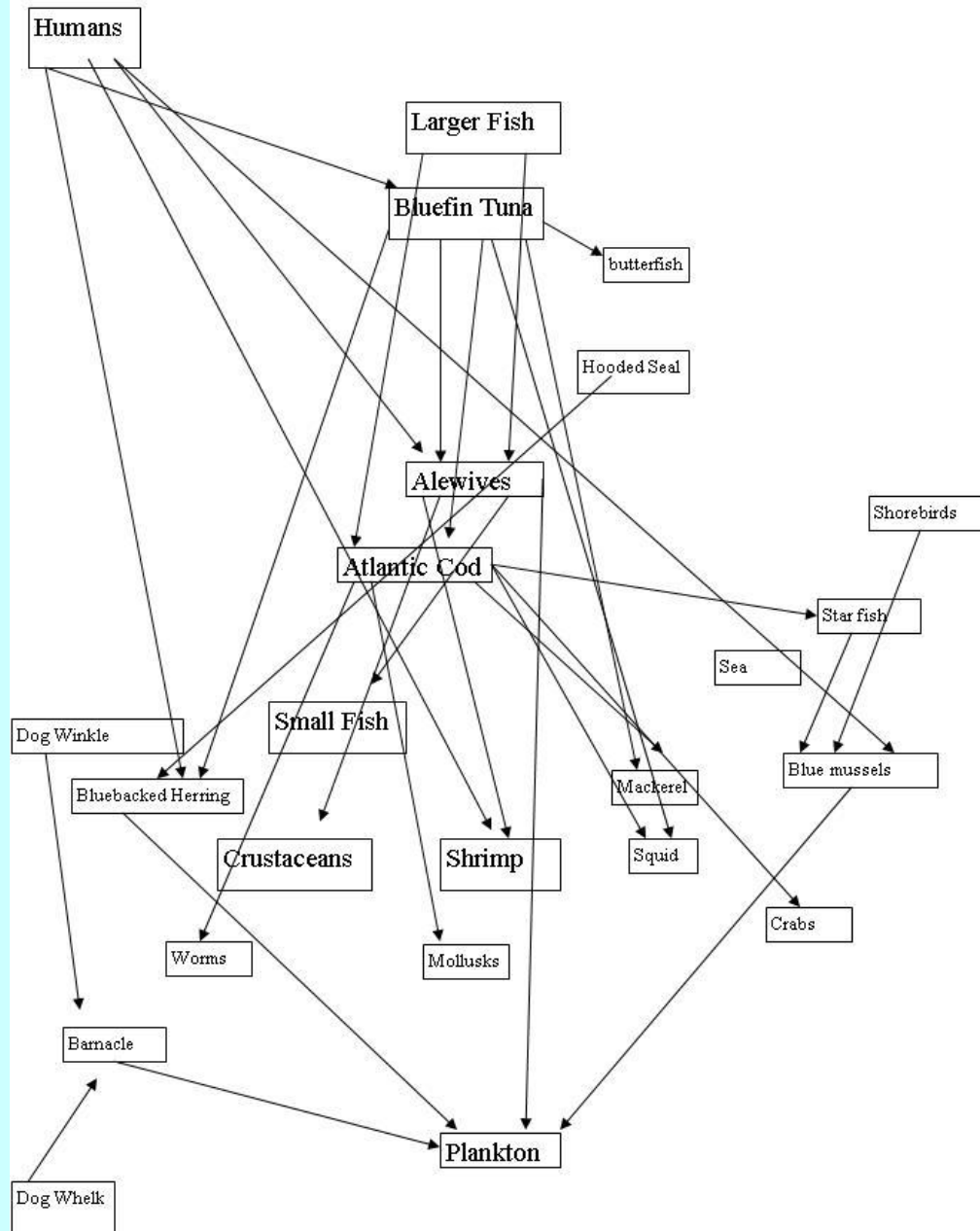
Common name	Aquatic Environment	Habitat	Description	Diet	Predators	Adaptive Fea
Alewife	Gulf of Maine	in shore and off shore fresh	silvery body on the bottom	Phytoplankton	humans, ospreys ,seagull	it doesn't us
Arctic Terns	Beach	lives in Antarctica in winter	8-12" black or gray feathers	Small fish and shellfish	Falcons and other big birds	eats a wide
Atlantic Salmon	Gulf of Maine	stream channels with rocky	Pointed head long body	Shrimp; Crabs; and other	Humans; Harbor Seals;	Ability to jum
BLUEFIN TUNA	Gulf of Maine	On the surface of the water	a dark blue top; cream	herring, haddock, mackerel	humans	it can swim
clam, hard-shell, soft-shell	Beach	saline areas of Chesapeake	cream, brown,, yellow	phytoplankton, whatever c	eels, sea stars, whelks, p	foot helps cl
Cod	Gulf of Maine	Bottom of the sea	Cod are heavy bodied	zooplankton and small fish	Big fish, humans and bigg	Cod swim in
cormorants	Gulf of Maine	lakes and rivers	2 feet long; weighs on	crabs; cod; flatfish; whiting	none	3086 dives e
Eel	Gulf of Maine	Fresh or salt water ; coast	It's long and very thin;	plankton, fish, shrimps, sr	Humans	Change colo
Haddock	Gulf of Maine	bottom of the ocean	small barbel; three do	meat; invertebrate organis	blue jelly fishes; humans;	bottom of ck
Harbor seals	Gulf of Maine	Canadian Atlantic coast;	6 feet, 200 pounds, bl	fish, crabs, squid, shrimp	humans	storing more
Herring.	Gulf of Maine.	Inshore and offshore.	deep blue; blue green	plants; phytoplankton; zoc	pollock; cod; salmon; tuna	Swim in sch
Hooded Seal	Gulf of Maine	Arctic waters and sea ice	dark faced; 12 feet; cr	plankton, mussels, starfish	unknown	Inflates hoo
horseshoe crab	Gulf of Maine	ocean bottom	hard shell; lots legs; r	dead plants and animals	none	hard shell fo
Humpback Whales	Gulf of Maine	Swims in shallow places;	2 blowholes; really lor	Krills; small fishes; herring	Humans	Has 2 blowh
Jellyfish	Gulf of Maine	Bottom of the ocean/top o	Umbrella shape; Tent	Small animals; Plants	Sea Turtles; Sunfish, (Eve	They paralyz
limpet	Tide Pool	rocky shores	white, hard, round, sh	algae	gulls, terns, eels, sea star	muscle that
lobster	Gulf of Maine	bottom of the ocean	hard shell; bluish-gree	dead plants and plankton	cod), octopi, lobster, crab	My species
Loon	Estuary	on lakes and in nest	Loons have stout bodi	.		legs in the b
lumpfish	Gulf of Maine	rock weed; bottom dwelle	mottled blue or olive, l	worms, small crustaceans	humans	sucker disc
Mackerel (Scomber Scom	Gulf of Maine	middle of the ocean	blue-green scales; wid	dead plants and smaller fis	people; larger tuna; sharks	great swimrr
Menhaden	Gulf of Maine	inshore and offshore.	large head, adult Men	Plankton.	Birds, Saltwater fish, Mari	powerful tail
mussels	Tide Pool	rocky bottoms of tide pool	wedge or pear- shape	plankton; bacteria; organic	gulls; hooded seal; ducks;	threads hold
Octopus	Gulf of Maine	dens, under rocks, crevice	bag like body, big eye	crabs, scallops, snails, fis	Moray Eels	Diffused colc
Oyster	Estuary	The oyster lives along the	The oysters are soft-b			
Piping Plover	Beach	High Beach Close to The I	A small bird , stocky,	Small animals, insects, cr	Foxes and Humans	63 more spe
plankton	Gulf of Maine	it is near the surface of the	phytoplankton looks li	phytoplankton make their	zooplankton, fish, whales	the phytopla
Puffin	Gulf of Maine	on the sea	Black feathers and wh	fish and pelican	none	feathers hide
Sand dollar	Beach	Bottom of the ocean.	2-4 inches in length; M	Plankton, Dead stuff that f	Starfish, Snails, Skates.	flat lives on t
Scallop	Gulf of Maine	Sandy ocean bottoms	Two hard shells held t	Phytoplankton	Humans, octopus, crabs, se	can swim by
Sea Anemone	Tide Pool	Rocky; Wet/Damp area or	Usually 1 to 4 inches	Fish, Mussels, Worms, Zc	Grey sea slugs, Tompot Bl	Built in Stun
sea cucumber	Tide Pool	tide pools comes in and o	has a leathery, branch	they eat decaying matter	sea turtles, crustaceans, r	behaviors of
Sea Horse	Gulf of Maine	deeper in winter; shallow in	head like a horse; pou	Plankton; Tiny fish:	Rays; tuna; birds; crabs;	Sea Horse b

Record: 32 of 44

What eats your organism? Be as specific as possible.

NUM

Gulf of Maine Food Web (Sample)





Journal Article

The Fantastic Lobster Report

If you like lobster and not just like to eat lobster than you should read this. My creature's name is the lobster. It is famous around the world. The lobster surprisingly can be a lefty or a right handed. Just like people. The crusher claw determines whether it's going to be a left handed or a right handed lobster.

The lobster lives in the Gulf of Maine on the rocky bottoms and is found in wide and open areas. Lobsters like to hang out between seaweed, in shallow waters along the coast or digging burrows in mud and on the ocean's bed.

The coolest thing about lobsters is what they look like so let's read and find out its appearances. It is greenish grayish has 2 claws called the pincer and the crusher claw. Antennae 34" (86cm) Long, 9" (23cm) High, Beak pointed with 5 teeth on top side. After a period of every 5 years the lobster grows to an average weight of 3lb (1.4kg).

There are many types of animals that eat different things. Well the lobster eats almost anything so my creature is an omnivore. The lobster's preys are crabs, clams, mussels, fish, and sea urchins. Its predators are dolphin, people, fish, cod, octopi, and other lobster.

Here are some other interesting facts about lobsters. People fly around the world with lobster all the time, and there in the buffets. The lobster also migrates every year. There is over 1 million lobsters eaten a year.

Now can you see why the lobster is a beautiful creature well if not it's, because it can be a left handed or a right handed, and because people travel around with lobster. Don't forget the wonderful facts about lobster. Next time eat 1. And enjoy the warm melted butter, sounds good.

YUM!!!