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Next Week: Fireworks safety

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Have you ever hunted for seashells at the

beach? Did you know that they were once

about our world's beautiful seashells.

A big family

such as the octopus.

Protection

the homes of animals from a watery world?

This week, The Mini Page learns more

Sea animals with shells belong to a group

known as mollusks (MAH-lusks). Mollusks

Shells help protect animals with soft

(VER-tuh-bray). Soft-bodied animals with no

Seashells protect invertebrate sea animals.

backbone are called invertebrates (in-VER-

These marine animals, or creatures living in

the water, build shell homes and live inside

them. Some animals move into the shells of

other animals after the original owner dies.

Shells are made of a rocklike material

Shelled marine animals have a special

formed from calcium and other minerals,

like our bones are. Sea animals get these

skinlike covering over their bodies. This

(si-KREETS), or produces and spreads, the

material for the shell all around the animal's

Sea animals build their shells over time,

is called a **mantle**. The mantle **secretes**

Building a home

minerals from the water.

tuh-brits). Most animals are invertebrates.

bodies and no backbones, or vertebrae

also include some animals with no shells,





Mini Fact:

The giant clam is the largest bivalve on Earth. It can weigh up to 500 pounds.

layer by layer. You can tell how old a shellfish was by counting the layers spreading out

over the shell, much like counting the rings of a tree. Shellfish don't build their shells at a steady rate. They have growth spurts.

Colors

The beautiful colors on the shell vary depending on the animals' diets and how fast they are secreting the shell material.

Shellfish in warmer waters, where there is a big variety of food, will usually have many more colors than shellfish in colder waters.

Tropical cone shell

Sinuous whelk

How many shells?

Animals such as snails build single shells to live in. Sea snails such as the conch or whelk usually build shells in a spiral

Other mollusks, such as clams and oysters, have two shells joined together with a kind of hinge. This type of shellfish is called a **bivalve** (BY-valve).

Have you noticed that you usually find only one half of a shell? When the animal dies or is eaten, the hinge usually breaks, and the two halves of the shell separate.

Shellfish life

Shellfish have a strawlike organ called a **siphon** (SY-fun) that they use to pull water across their gills. They breathe and feed with their gills. They get their oxygen and food from the water.

Some shellfish also have a type of tiny plant called **algae** (AL- jee) living with them. The algae can make energy from sunlight and nutrients they get from the water. They share this energy with the shellfish.

Bivalves open their shells when they are eating or breathing. They close their shells when they feel threatened.

Shellfish that live in areas close to the coast may close their shells during low tide. This keeps the animal from drying out. When the tide comes back in, the animal opens up its house and lets the water in.

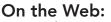
Collecting shells

Never take a shell that is home to a living animal. All living things are important to the environment.

Some living shellfish can sting you. The nose area of some cone shellfish has a kind of harpoon. They inject their prey with venom to paralyze it, then they eat it. Sometimes people can have serious reactions to the stings.



Resources



• bit.ly/MPmollusks

At the library:

• "Seashells: More Than a Home" by Melissa Stewart

 "Seashells and Beachcombing for Kids" by Stephanie Panlasigui and Erika Zambello

Try 'n' Find

Words that remind us of seashells are hidden in this puzzle. Some words are hidden backward or diagonally, and some letters are used twice. See if you can find:

ALGAE, ANIMAL, BEACH, BIVALVE, CALCIUM, COLOR, HOME, INVERTEBRATE, LAYER, MANTLE, MOLLUSK, SEA, SECRETE, SHELL, SIPHON, SPIRAL, STING, VERTEBRAE.

XEAGLAETERC REYALBEACHTKS TKQGUCALCI Y A E B V

Mini Jokes

Shelly: What did the beach say to the wave? **Sherman:** Long tide, no sea!

Record-breaking ocean heat of the past year appears to have caused a never-before-seen decline in phytoplankton, algae and bacteria, which many marine species depend upon for food. A study examined 21 years of satellite data and found that by April 2023, there had been a 22% drop in the microorganisms compared to the 21-year average. The study found that almost three-quarters of the global ocean surface saw such a decline. While marine ecosystems can sometimes recover, one scientists called these results "very concerning."

For later:

rou'll need an adult's help with this recipe

Look in your newspaper for articles about marine life.

Teachers: Follow and interact with The Mini Page on Facebook!



Cook's Corner

Squash and Cheese Casserole

You'll need:

- 1 1/2 pounds sliced yellow squash • 1 medium onion, diced
- 1/2 teaspoon salt
- 1 teaspoon sugar
- 2 tablespoons butter
- 4 eggs, lightly beaten
- 1/2 cup shredded cheddar cheese
- 1/2 cup low-fat milk
- 1/8 to 1/4 teaspoon
- cayenne pepper • 1/4 cup freshly grated
- Parmesan cheese

What to do:

- 1. Combine squash, onion, salt and sugar in a pan with enough water to cover.
- 2. Bring to a boil; reduce heat and simmer for 10 minutes until vegetables are tender.
- 3. Drain the squash mixture; place in a bowl and mash.
- 4. Add butter and mix well. Stir in eggs, cheddar cheese, milk and cayenne pepper.
- 5. Spoon into a buttered 8-by-8-inch baking pan. Sprinkle with Parmesan cheese.
- 6. Bake at 350 degrees for 30 to 45 minutes, until set. Serves 4.

7 Little Words for Kids

Use the letters in the boxes to make a word with the same meaning as the clue. The numbers in parentheses represent the number of letters in the solution. Each letter combination can be used only once, but all letter combinations will be necessary to complete the puzzle.

