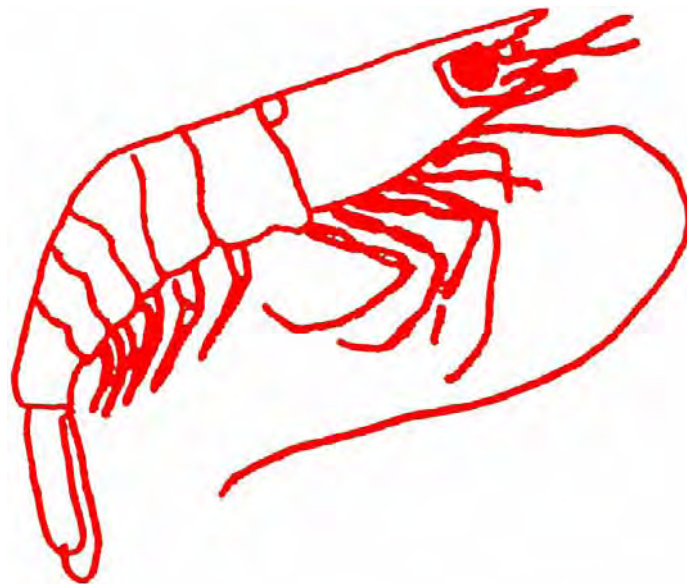


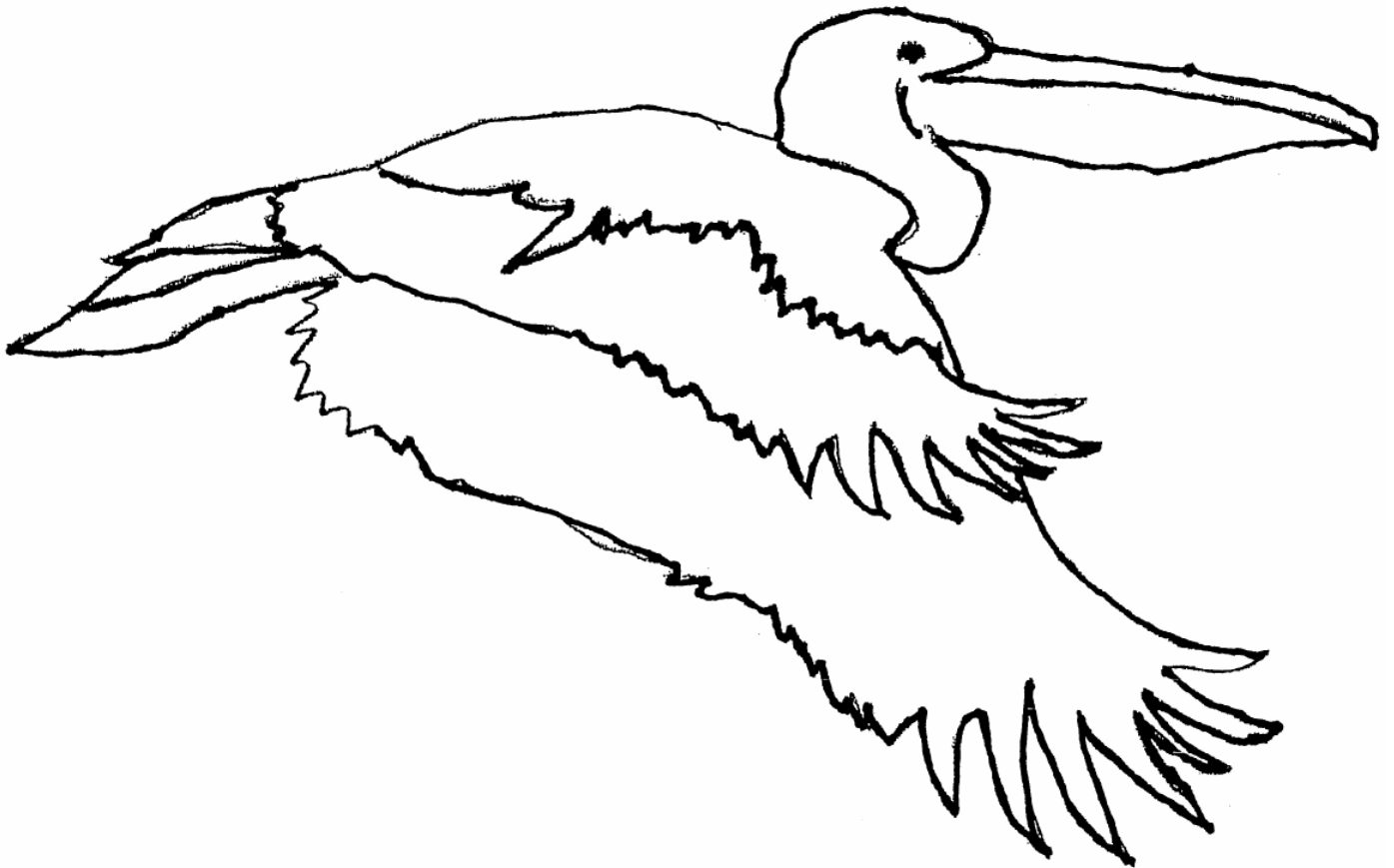
# Mobile Bay Activity Book



# Coastal Alabama and Mobile Bay: Did you know???

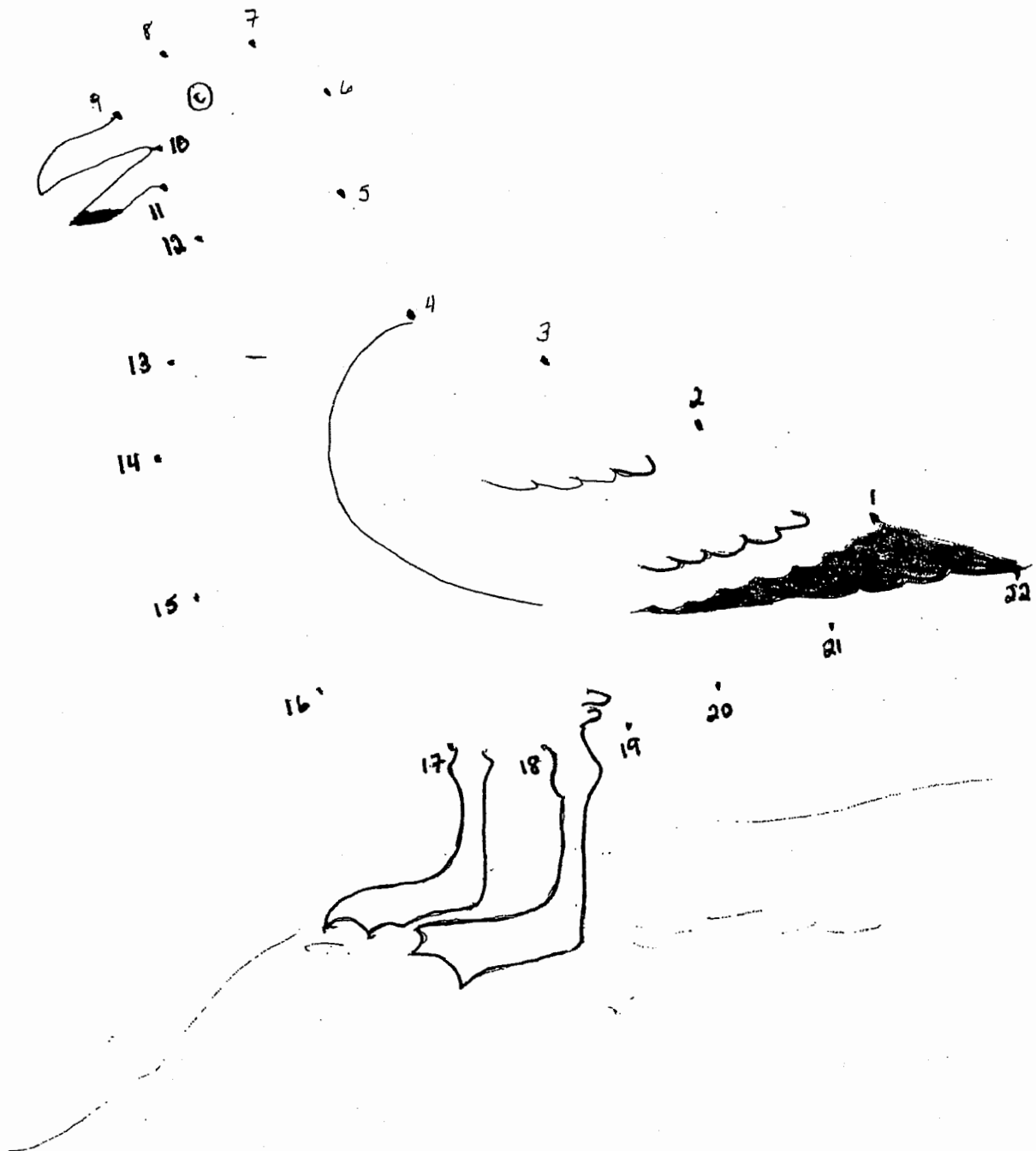
- Mobile Bay has both salt water from the Gulf of Mexico and fresh water from rivers. This body of water where fresh and salty water mix is called an *estuary*. Many fish, shrimp, and crabs live here.
- The delta is a beautiful place where rivers enter Mobile Bay and flow through marshes, swamps, and bottomland hardwood forests.
- Alabama has a relatively small coastline consisting of approximately 50 miles of beach, but has the fourth largest river system by volume in the United States, an average of 460,000 gallons per second, or 42 billion gallons per day.
- The first people to live around Mobile Bay were Native Americans. The Spanish visited in the early 1500's and named it *Bay of the Holy Spirit*.
- The famous Battle of Mobile Bay, one of the last major battles of the Civil War, was fought in August of 1864.
- The Mobile Bay estuarine system is located in the center of the northern edge of the Gulf of Mexico and is protected by the long peninsula of Fort Morgan on the east and to the west by Dauphin Island.
- Mobile Bay is approximately 31 miles long with the widest point being about 24 miles across, and the average depth is only 10 feet. A man-made ship channel, 45 feet deep, has been in operation since the 1800's, creating an international seaport for ocean going vessels.
- The white sandy beach of coastal Alabama has the consistency of fine sugar and is made of quartz derived from the erosion of the southern end of the Appalachian Mountains.

Color Me!

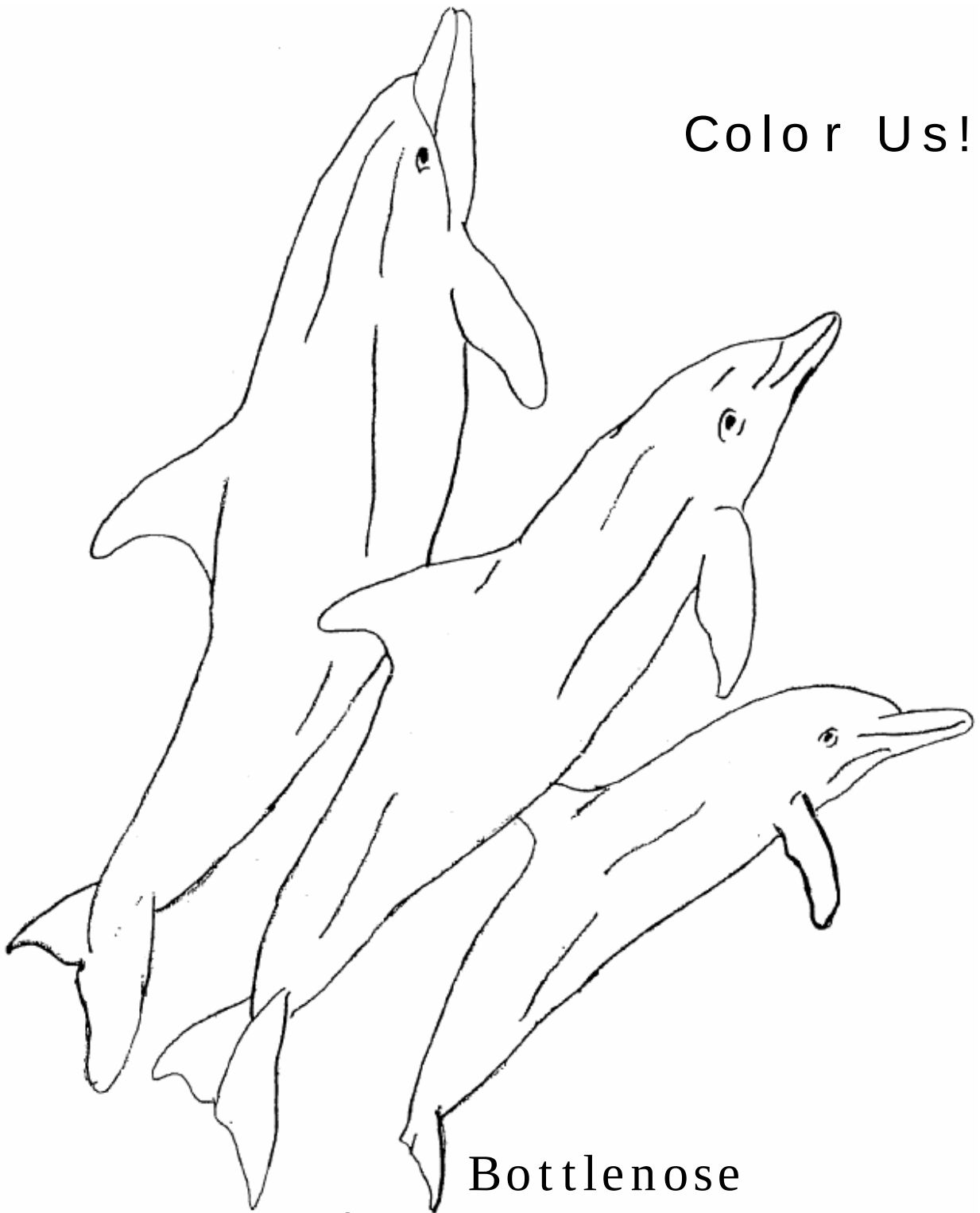


Brown pelicans have special air sacs in their chest area that cushion them as they dive into the water from as high as 12-14 feet.

**Connect the dots to find a  
common shore bird.**

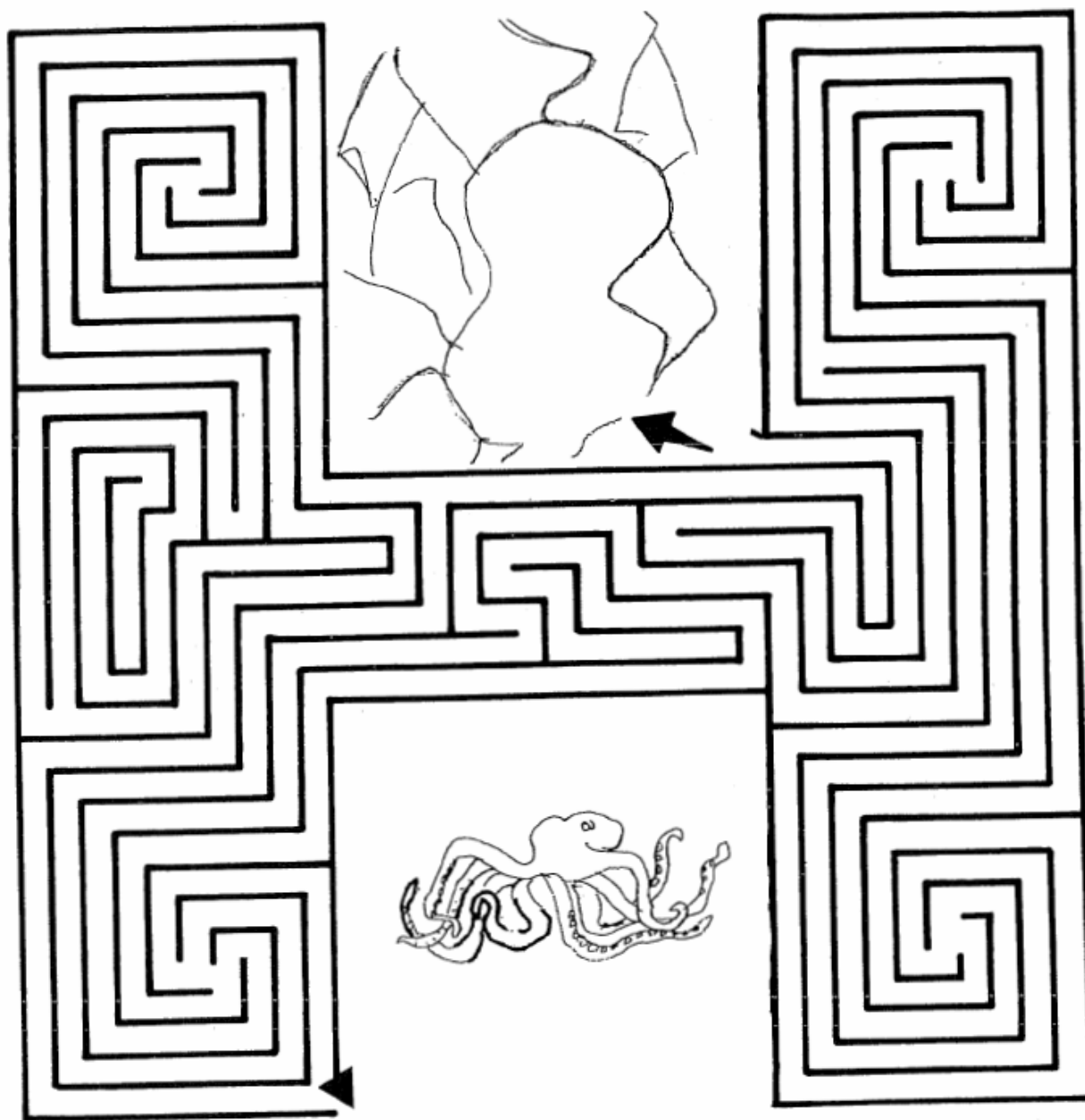


Color Us!



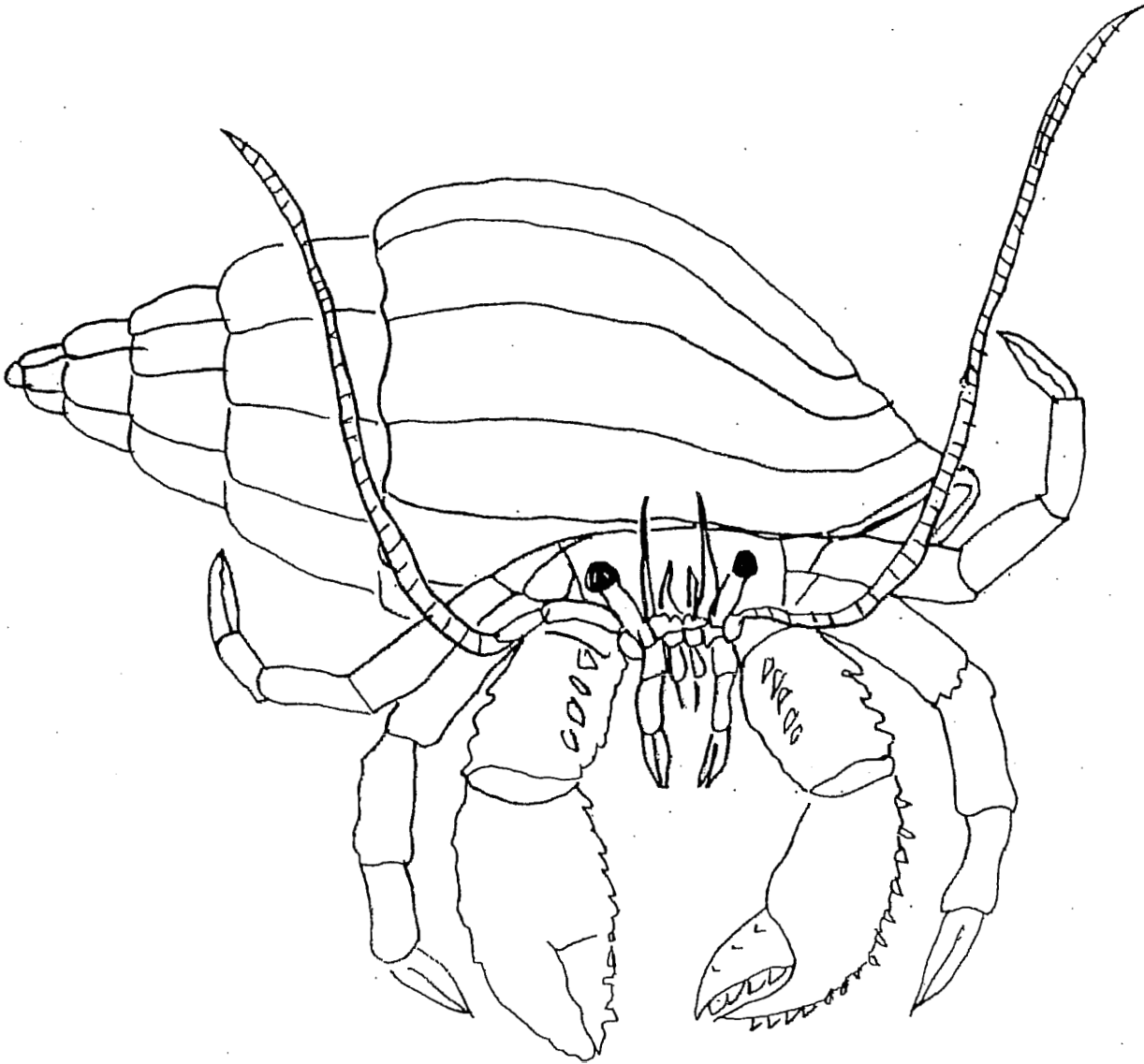
Bottlenose dolphins are found throughout the Mobile Bay area. This dolphin is the type most frequently seen in captivity.

Can you help this Octopus  
find its cave?



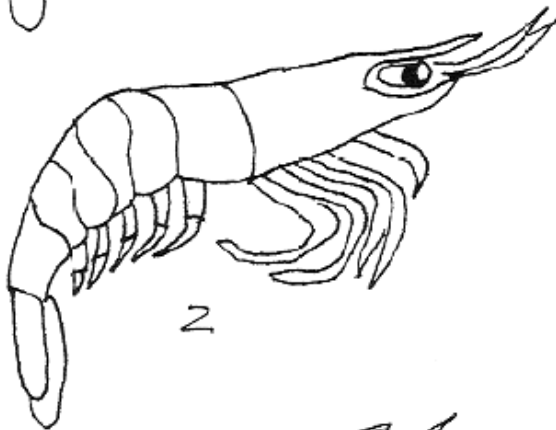
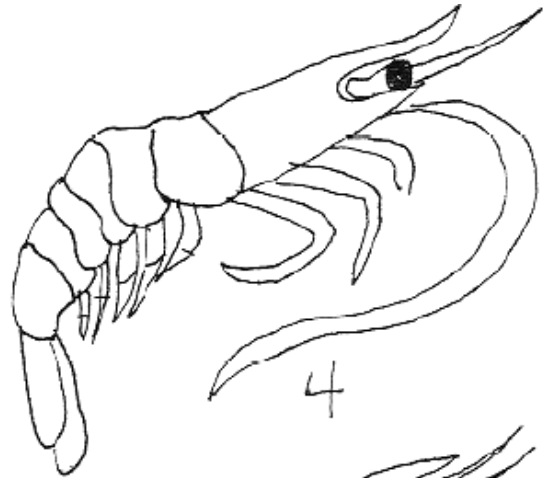
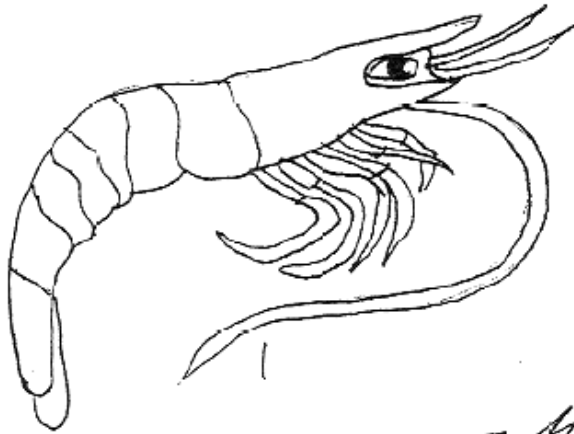
The common Atlantic octopus is found throughout the Gulf of Mexico. They are a highlight for visitors to the Dauphin Island Estuarium.

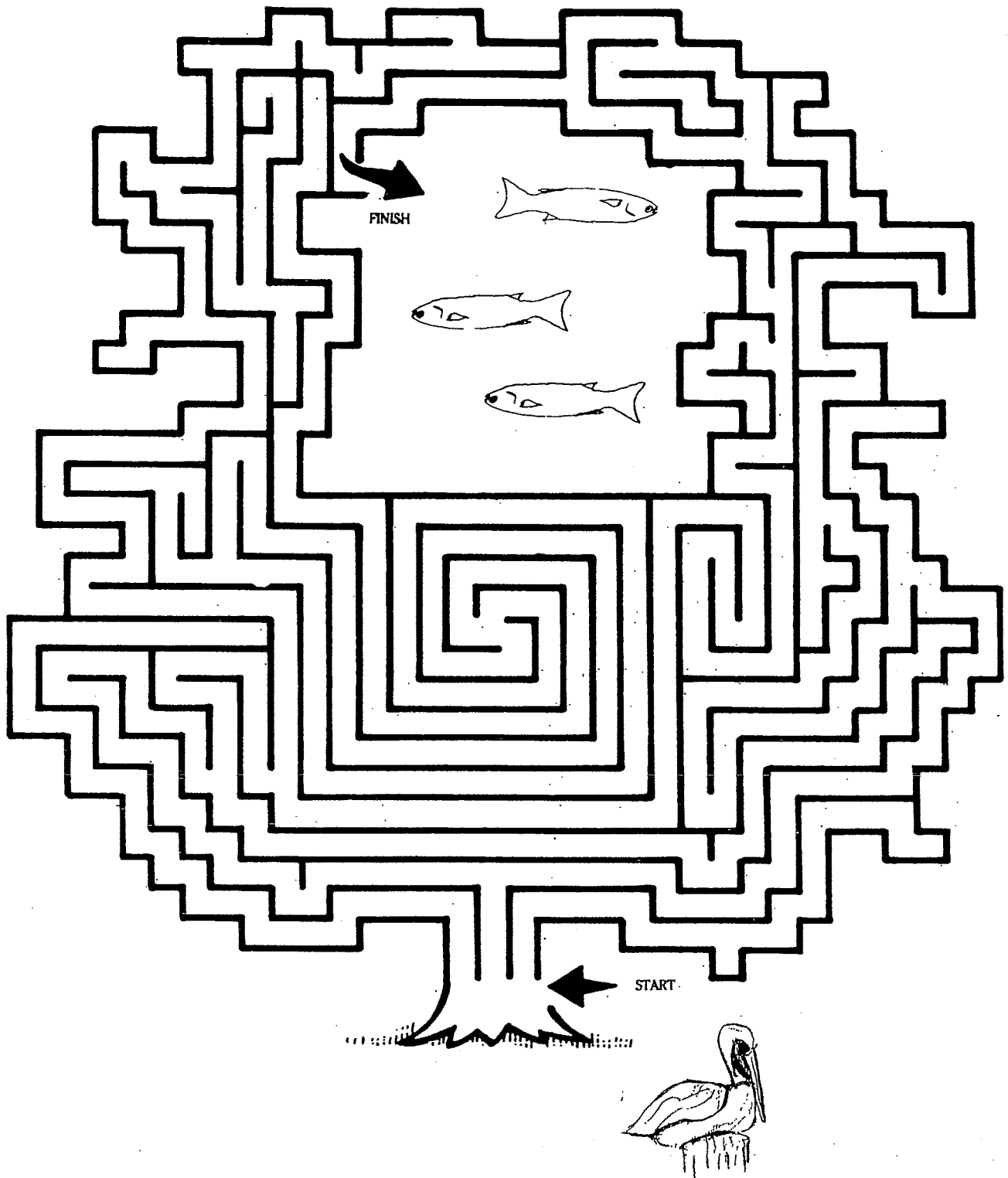
# Color Me!



**Hermit crabs have no shells of their own, so they use the empty shells of snails as their homes. They move into larger shells as they grow.**

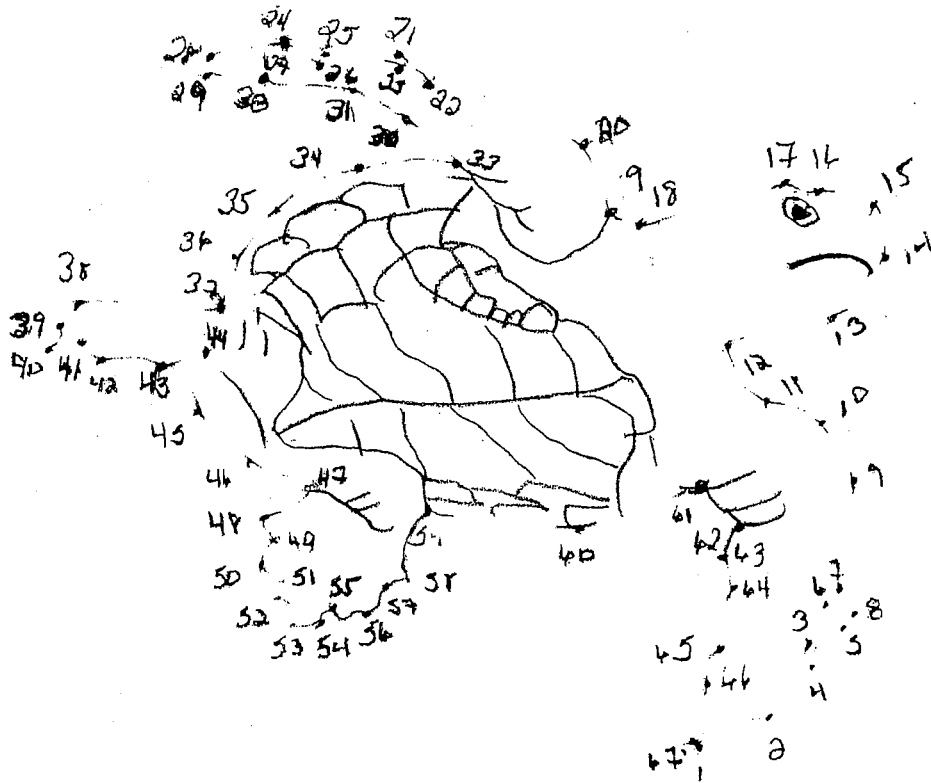
WHICH TWO ARE THE SAME?





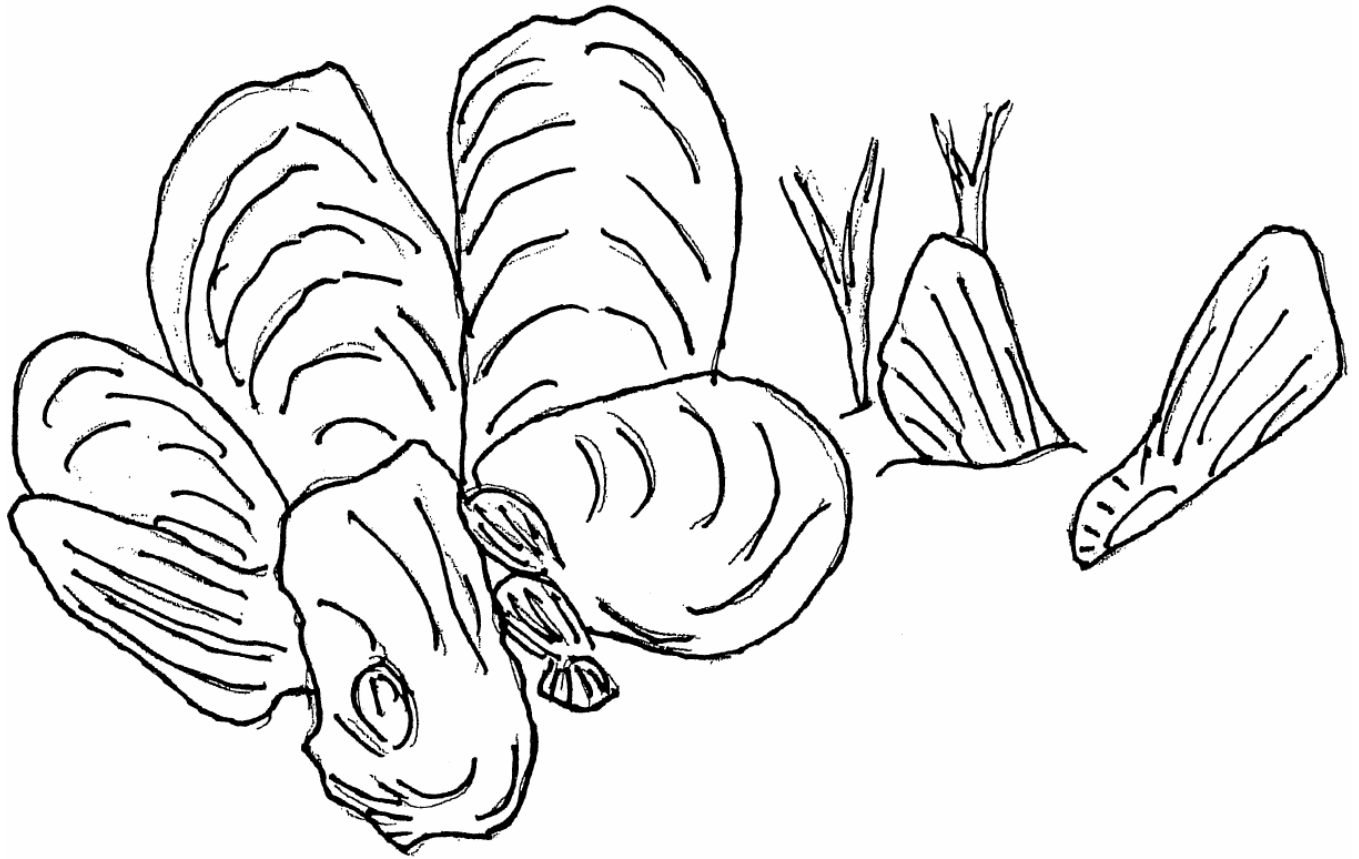
**Can you help the pelican find its dinner of fish?**

# Connect the dots



**There are seven different types of sea turtles, all are either endangered or threatened. You might find Loggerheads or Kemp's Ridleys in Mobile Bay.**

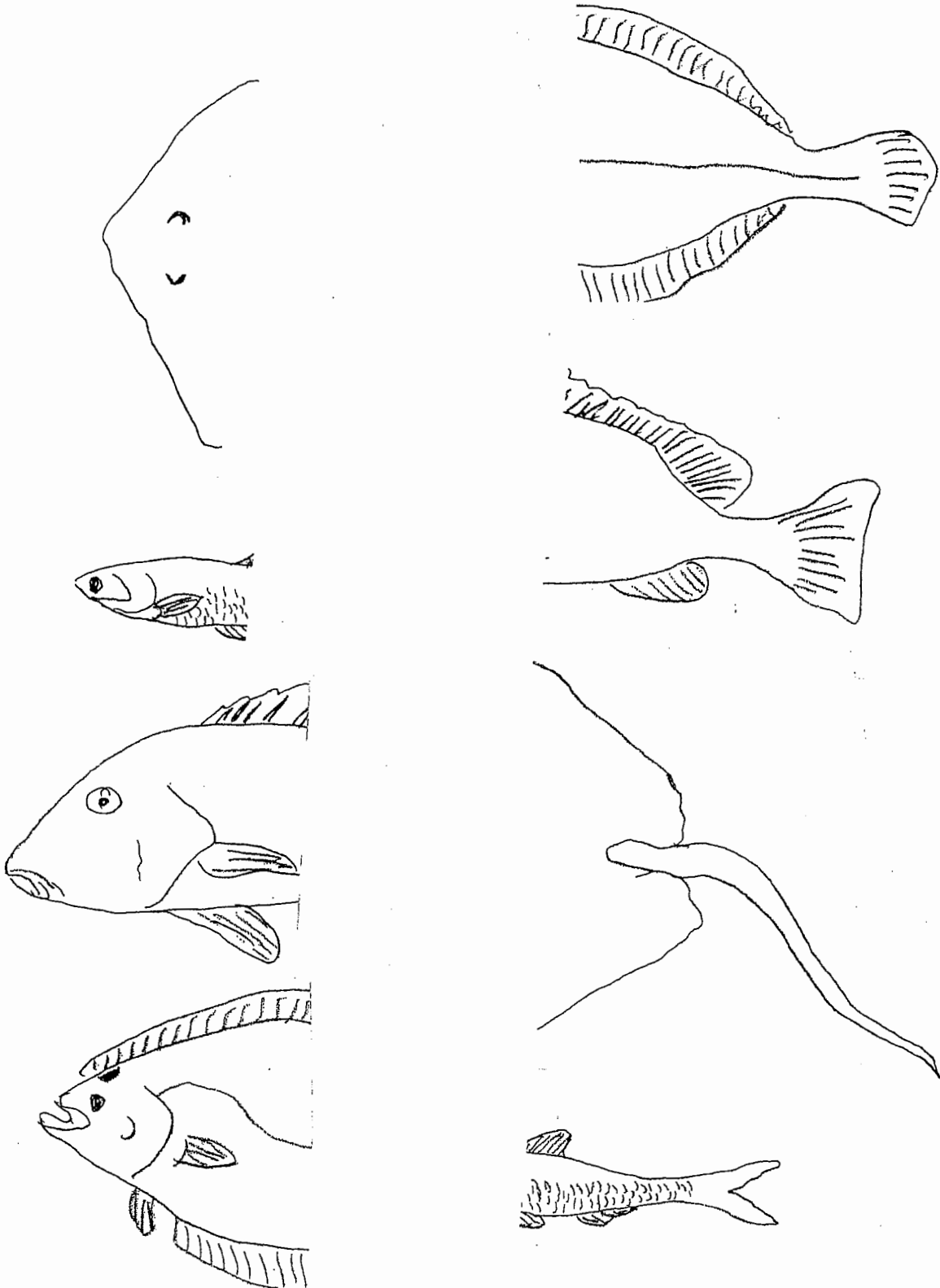
# Color Us!



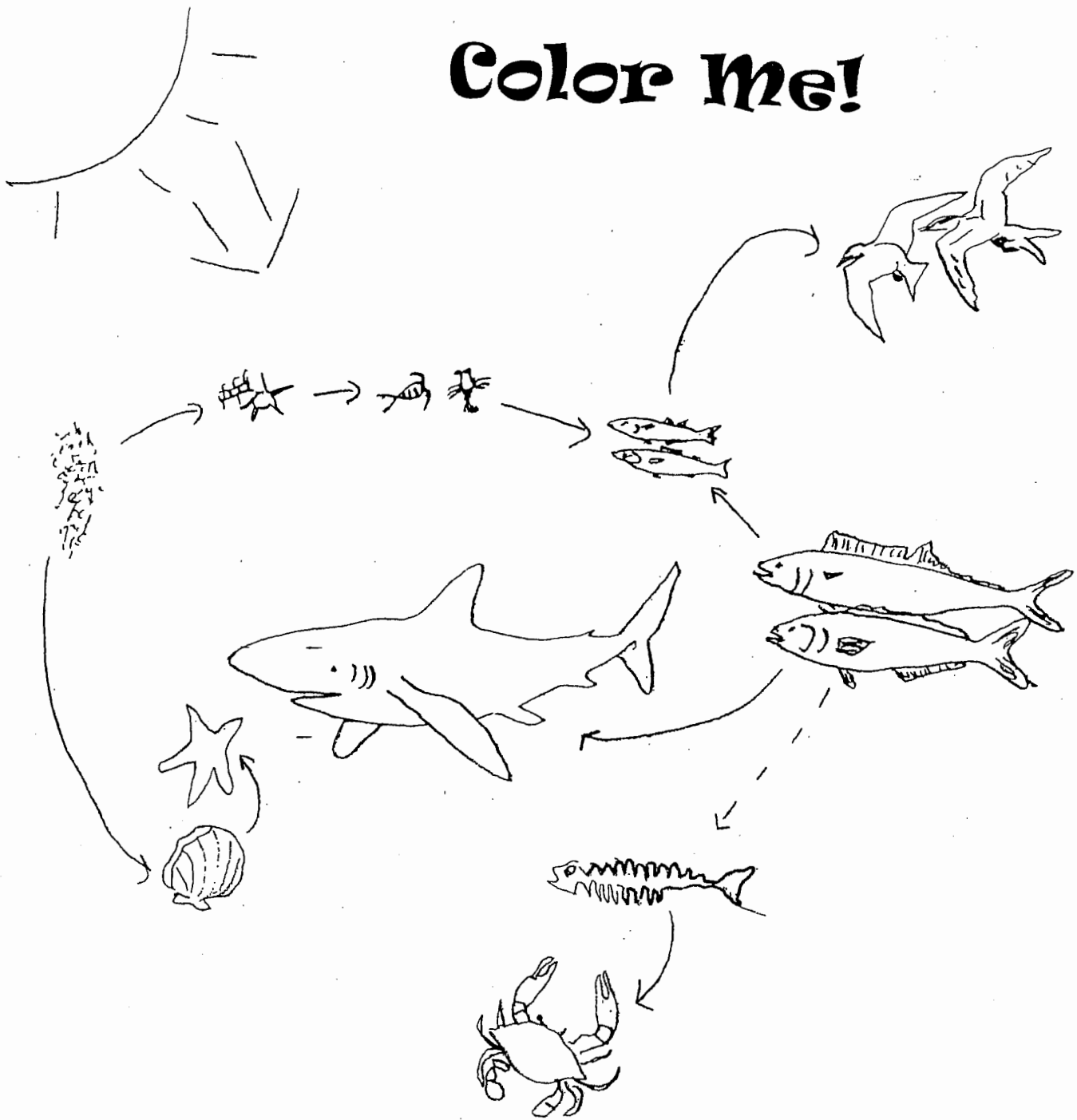
Common eastern oysters can be found on pilings, or attached to each other, forming reefs. Ribbed mussels are found in salt marshes, just under the

# Match the Fish

**Draw a line from half a fish on the left to the other half on the right to see what Stingrays, Anchovies, Red Snappers, and Flounders look like.**



# Color Me!



**Sunlight provides energy for all these living things. Producers (such as tiny plants called phytoplankton) absorb the sun's energy and use nutrients from the environment. Consumers (such as sharks, fish, birds) eat plants or other animals. Recyclers (such as crabs) eat dead things and turn them into nutrients.**

# Mobile Bay "Mad Lib"

**Directions:** Fill in the mad lib list, then copy your mad libs into the blanks in the story below. Once you have filled in all the blanks, read your completed story for a fun look at how animals and habitats depend on each other for survival.

## Mad Lib List:

1. Family member \_\_\_\_\_
2. Somebody's name \_\_\_\_\_
3. Animal \_\_\_\_\_
4. Color \_\_\_\_\_
5. Animal \_\_\_\_\_
6. Things \_\_\_\_\_
7. Animal \_\_\_\_\_

**I was swimming down Mobile Bay one autumn day with**

**my \_\_\_\_\_ and our friend \_\_\_\_\_, who**

**is a \_\_\_\_\_ very early in morning. A large**

**\_\_\_\_\_ started to chase us. I think he**

**wanted to eat us for breakfast! We ran quickly to get away from**

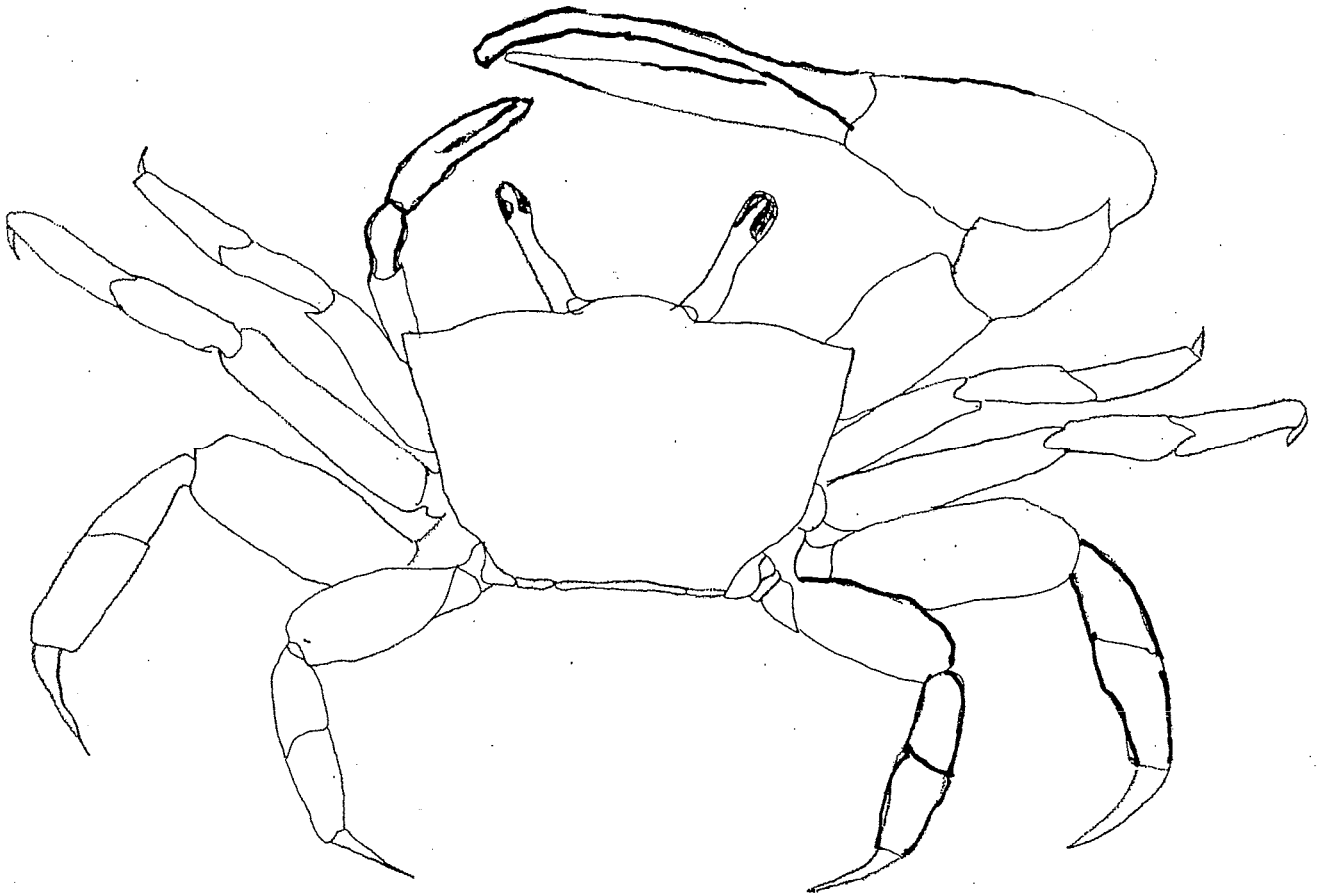
**it and hid in some \_\_\_\_\_ that were along the shore**

**of the Bay. We sure were lucky they were there so we could get**

**away. We found some \_\_\_\_\_ while we where**

**there that we ate for lunch.**

# Color Me!



**Fiddler crabs burrow into the mud of salt marshes. Males have one claw larger than the other. The crab eats with the smaller claw, while the larger claw is used to threaten or fight with other males.**

# Can you find these items in the picture?

**Tire**

**Fishing Rod**

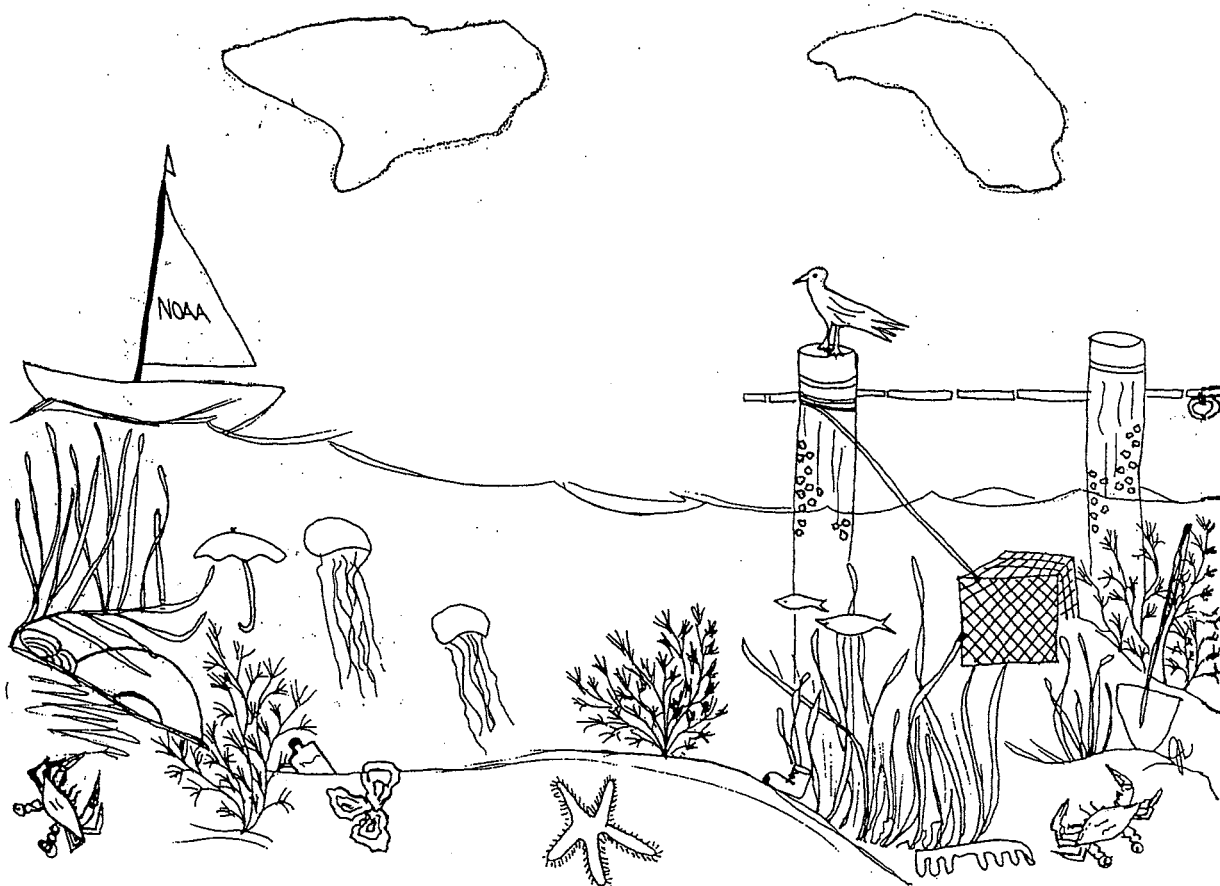
**Shovel**

**Comb**

**Bottle**

**Umbrella**

**Boot**



# Word Search

Words are found down, across, and diagonally.

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | M | R | E | D | S | N | A | P | P | E | R | Y | H |
| O | A | L | A | B | A | M | A | J | W | C | T | N | K |
| L | N | U | N | G | N | V | E | B | Y | O | O | P | M |
| P | A | S | P | V | D | X | I | H | L | I | D | C | F |
| H | G | S | E | H | E | R | M | I | T | C | R | A | B |
| I | E | L | L | J | I | O | R | A | A | O | R | T | A |
| N | M | W | I | L | R | N | V | C | R | A | B | F | R |
| F | E | E | C | Y | T | R | I | S | T | G | E | I | N |
| O | N | D | A | P | E | A | F | S | J | C | A | S | A |
| C | T | K | N | S | O | Y | A | H | L | E | Y | H | C |
| T | C | X | N | F | Y | E | S | R | D | A | N | C | L |
| O | Y | O | A | G | S | A | U | I | I | C | N | F | E |
| P | C | U | F | M | T | L | T | M | F | S | J | D | K |
| U | L | N | H | W | E | O | I | P | L | R | H | W | N |
| S | E | A | T | U | R | T | L | E | S | E | T | I | M |

Management

Conservation

Dauphin Island

Alabama

Hermit crab

Sea star

Sea turtle

Dolphin

Sand

Octopus

Shrimp

Pelican

Oyster

Red snapper

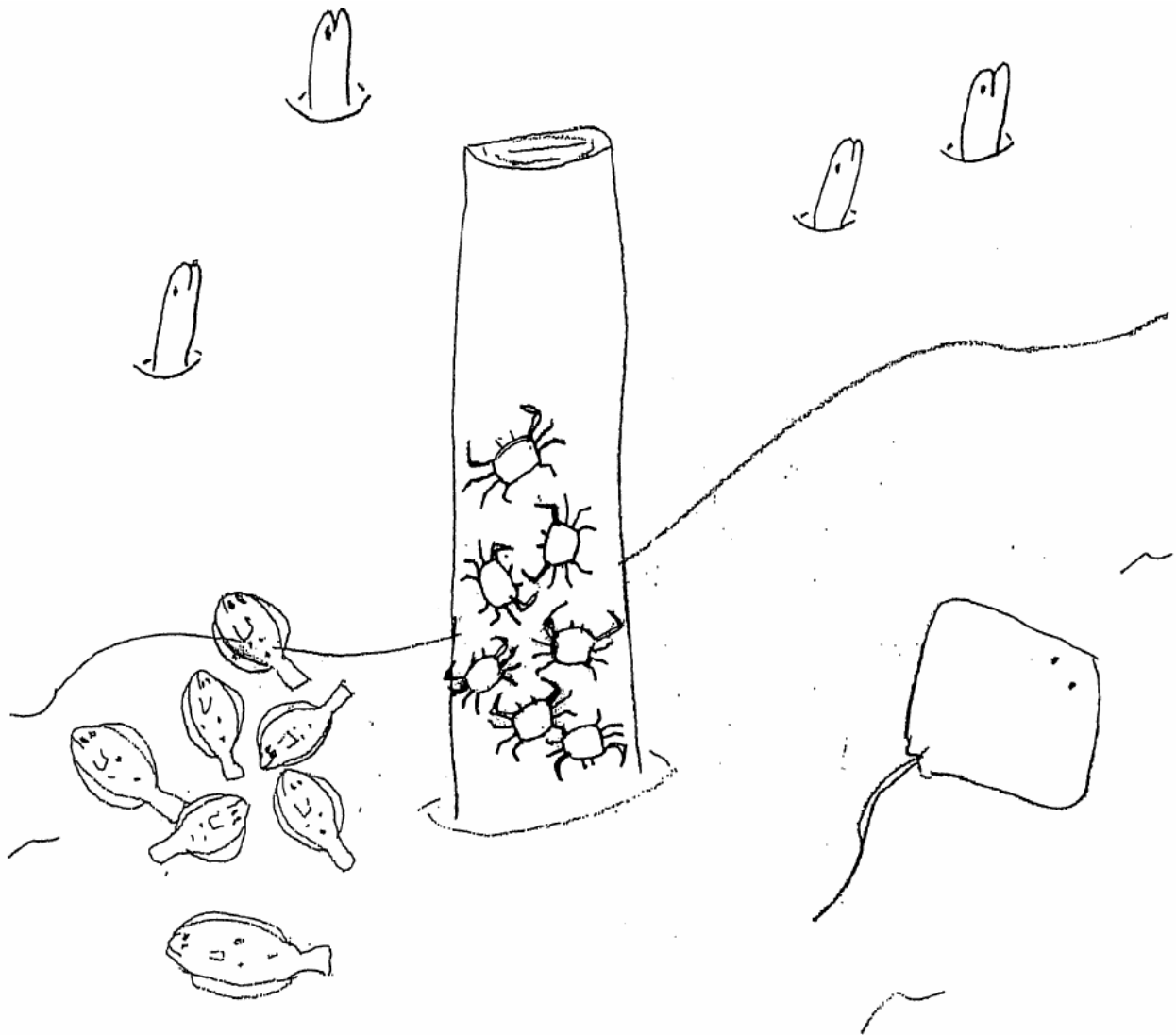
Catfish

Barnacle

Tide

Crab

# It's a Jubilee!

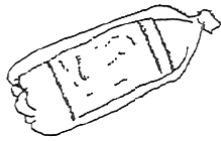


A Jubilee is a regular occurrence along the eastern shore of Mobile Bay. Jubilees occur only in the summer months, usually in the early morning just before sunrise. Under specific conditions, upwelling of oxygen-poor bottom water forces bottom fish and crustaceans ashore. Hundreds of flounder and tubs of crabs can be caught in just a few hours.

# Marine Debris

Draw a line from the type of debris (trash) to the time it takes to decompose (go away) in the marine environment.

plastic bottle



200 years

apple core



400 years

plastic 6-pack rings



1 million years

waxed milk carton



3 months

aluminum cans



2 months

glass bottles & jars



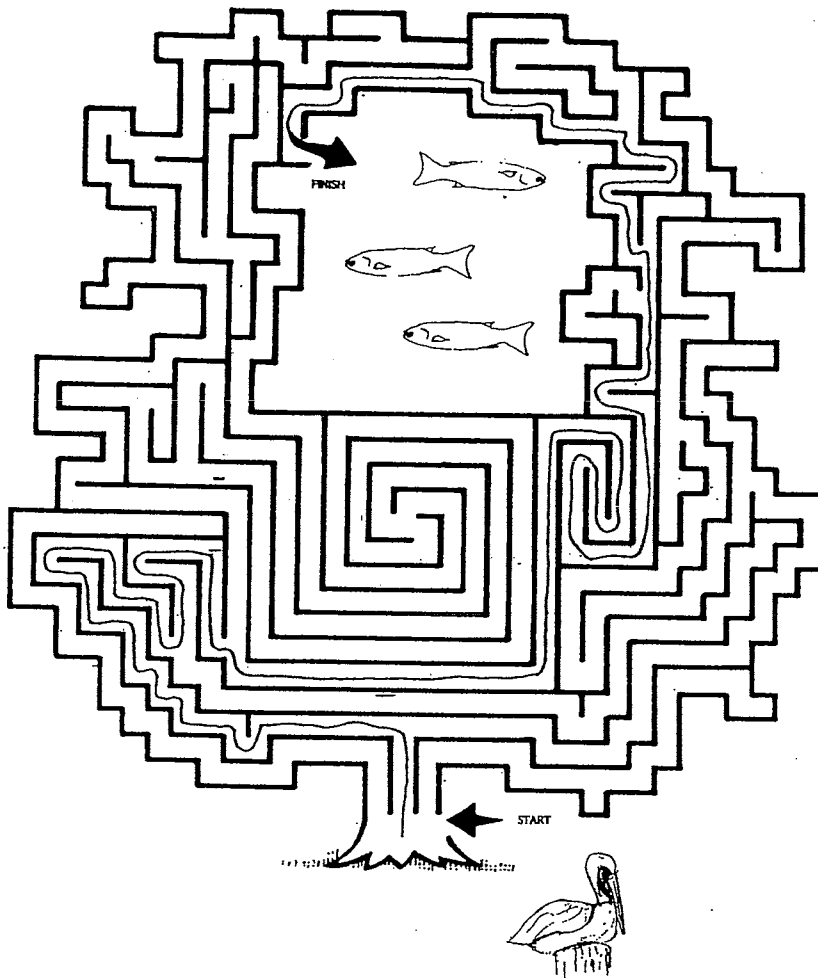
## Color Me!



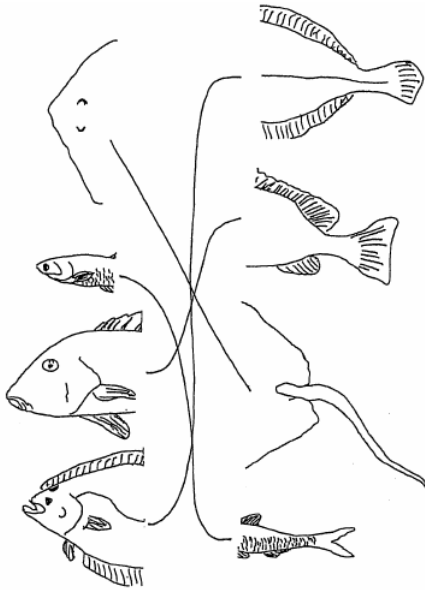
The beaches, rocky shores, marshes, coastal and open oceans are homes to many different plants and animals. Be polite and do not mess up their homes. Take your trash back to your home, just leave footprints in theirs.

# Answers

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| M | A | R | S | H | E | L | L | L | S |
| S | O | X | A | Q | C | U | E | W | E |
| E | F | B | L | M | U | E | Q | N | I |
| A | I | A | I | R | R | I | O | E | N |
| H | S | R | N | L | S | R | D | T | E |
| O | H | G | I | H | E | G | R | E | T |
| R | I | E | T | E | K | B | J | B | L |
| S | N | Z | Y | E | C | K | A | B | Y |
| E | G | E | S | T | U | A | R | Y | P |
| P | U | F | F | E | R | F | I | S | H |



# More Answers



Which two are the same?

1 & 3

plastic bottle



apple core



plastic 6-pack rings



waxed milk carton



aluminum cans



glass bottles & jars



200 years

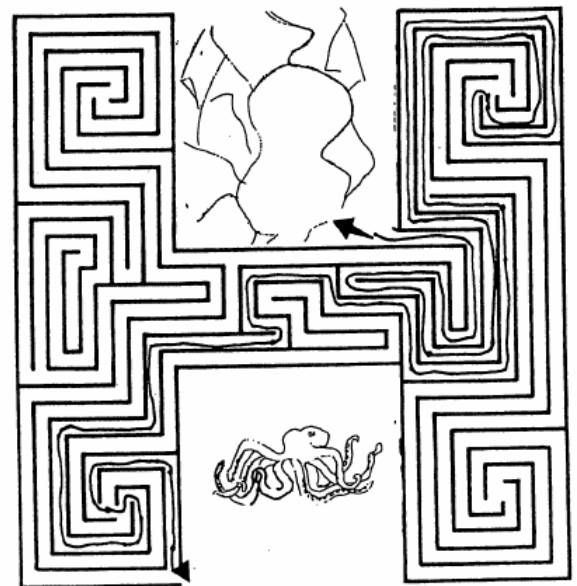
400 years

1 million years

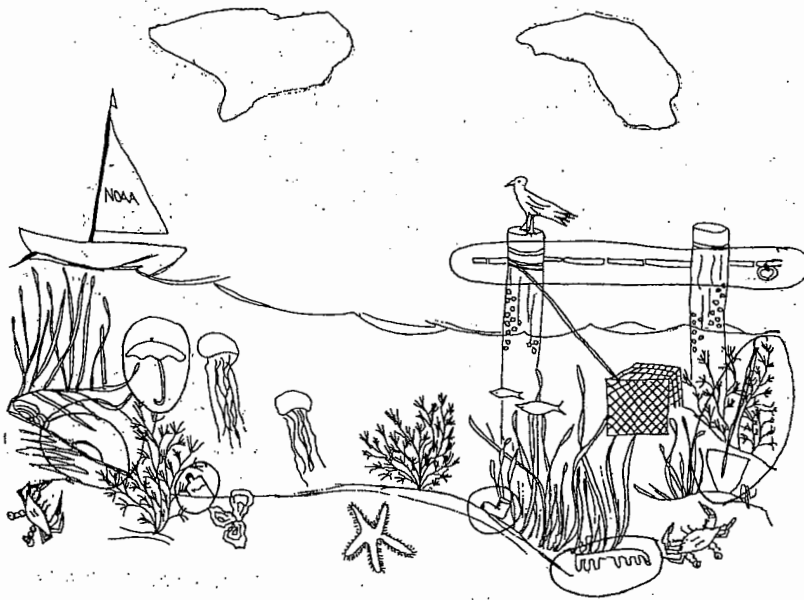
450 years

3 months

2 months



# Even More Answers



|              |              |   |   |              |              |   |   |              |   |   |              |              |              |
|--------------|--------------|---|---|--------------|--------------|---|---|--------------|---|---|--------------|--------------|--------------|
| <del>Q</del> | <del>M</del> | R | E | D            | <del>S</del> | N | A | P            | P | E | R            | Y            | H            |
| <del>O</del> | <del>A</del> | L | A | B            | <del>A</del> | M | A | J            | W | C | T            | <del>N</del> | K            |
| <del>L</del> | <del>N</del> | U | N | G            | <del>N</del> | V | E | B            | Y | O | O            | P            | M            |
| <del>P</del> | <del>A</del> | S | P | V            | <del>D</del> | X | I | H            | L | I | D            | <del>C</del> | F            |
| <del>H</del> | <del>G</del> | S | E | <del>H</del> | E            | R | M | I            | T | C | R            | <del>A</del> | <del>B</del> |
| <del>I</del> | <del>E</del> | L | L | J            | I            | O | R | A            | A | O | R            | <del>T</del> | A            |
| <del>N</del> | <del>M</del> | W | I | L            | R            | N | V | C            | R | A | <del>B</del> | F            | R            |
| <del>F</del> | <del>E</del> | E | C | Y            | T            | R | I | S            | T | G | E            | I            | N            |
| <del>O</del> | <del>N</del> | D | A | P            | E            | A | F | <del>S</del> | J | C | A            | <del>S</del> | A            |
| <del>C</del> | <del>T</del> | K | N | S            | <del>O</del> | Y | A | H            | L | E | Y            | <del>H</del> | C            |
| <del>T</del> | <del>C</del> | X | N | F            | Y            | E | S | R            | D | A | N            | C            | <del>L</del> |
| <del>O</del> | <del>Y</del> | O | A | G            | <del>S</del> | A | U | I            | I | C | N            | F            | <del>E</del> |
| <del>P</del> | <del>C</del> | U | F | M            | T            | L | T | M            | F | S | J            | <del>D</del> | K            |
| <del>U</del> | <del>L</del> | N | H | W            | E            | O | I | <del>P</del> | L | R | H            | W            | N            |
| <del>S</del> | E            | A | T | U            | <del>R</del> | T | L | E            | S | E | T            | I            | M            |

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May 2005