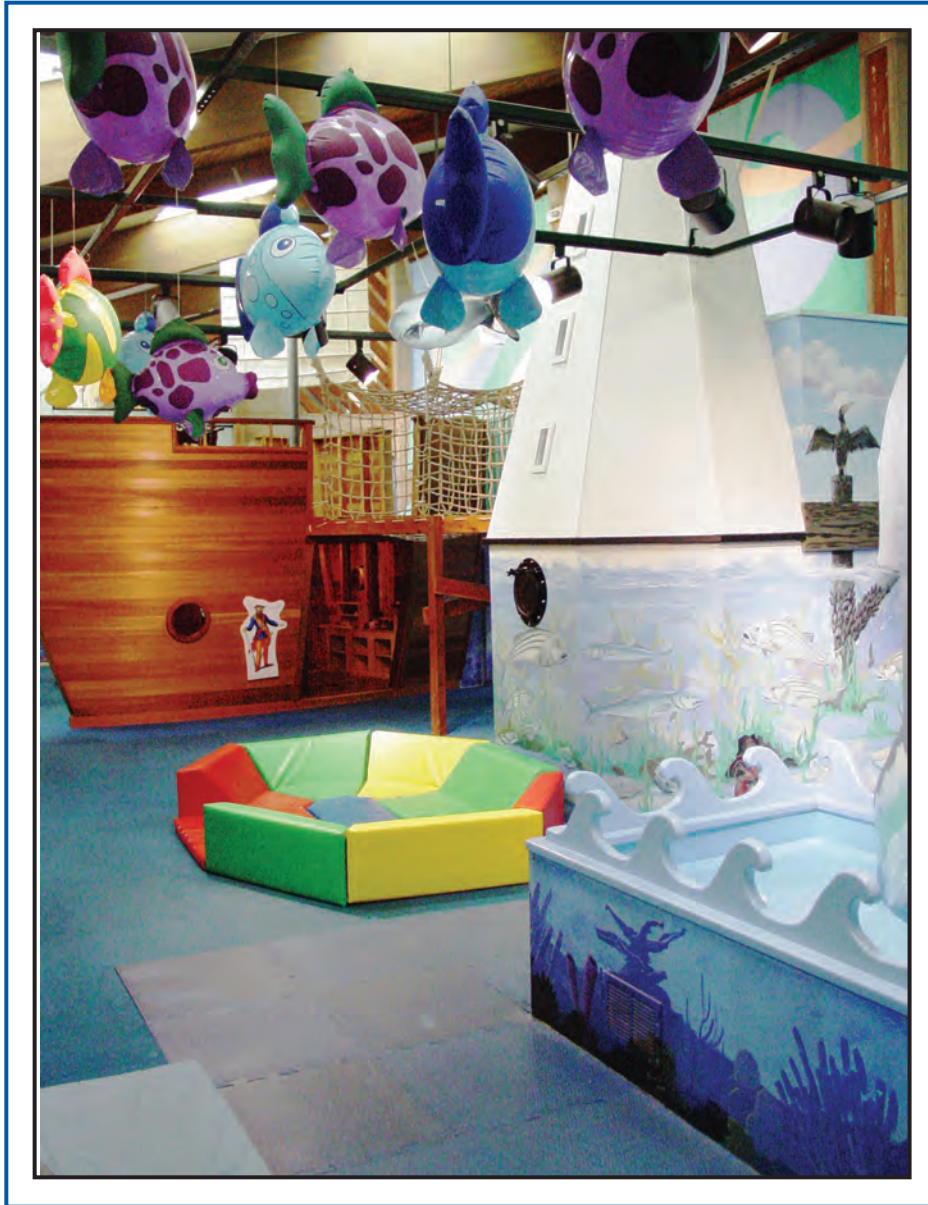


WonderWing Supplemental Activity Packet



An Interactive, Creative Environment for Children 6 years old and younger

Dorothy V. Morehouse

WonderWing





The
Monmouth
Museum

Dear Early Childhood Educators,

The *WonderWing* at the Monmouth Museum offers its young visitors a hands-on learning experience in a stimulating and enchanting marine setting.

Children are encouraged to climb, explore, interact and role-play as they participate in a docent-led tour of this ocean-inspired environment.

Each group tour includes a story and a craft activity. Each will have an opportunity to create a sea creature mobile, a crab mask or one of many other subject appropriate crafts.

We continually strive to make the *WonderWing* new and different for the repeat visitors. In recent years we have added a climbable lighthouse and a turtle beach puzzle area.

Bring your children to the *WonderWing* where play is enriched by learning.

Sincerely,

Avis H. Anderson

Executive Director

Dorothy V. Morehouse

WonderWing





Table of Contents

WONDERWING Tour.....2

Pre-Visit Activity Age 3-4.....3

Pre-Visit Activity Ages 3-6.....4

Pre-Visit Activity Ages 3-4.....5

Beluga Whale Pattern.....6

Pre-Visit Activity Ages 3-6.....7

Pre-Visit Activity Ages 3-4.....8

Pre-Visit Activity Ages 5-6.....9

Mammal Stencil Patterns.....10

Mammal Stencil Patterns.....11

Post-Visit Activity Ages 3-6.....12

Post-Visit Activity Ages 3-4.....13

Fish Pattern.....14

Post-Visit Activity Ages 5-6.....15

Post-Visit Activity Ages 5-6.....16

Post-Visit Activity Ages 5-6.....17

Post-Visit Activity Ages 4-5.....18

Post-Visit Activity Ages 5-6.....19

Post-Visit Activity Ages 3-6.....20

Glossary.....21

Bibliography.....25

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Wonder Wing Tour

1. Arrival- Welcome the children to the Museum. Introduce the tour guides. Separate into two groups. Have a brief discussion with the children about the ocean theme.
2. Pirate Ship – Children climb up the ladder and crawl under the metal bar onto the ships deck where they are taught to raise or lower the sail and take the helm for an imaginary voyage.
3. Tunnel or Rope Bridge- Children crawl through the Zone of Perpetual Darkness (ZPD) or walk across the rope bridge to view the glass covered coral reef. (Adults walk through gate.)
4. Light House- After crawling through ZPD, children go down the stairs and stop to look at the light at the top of the lighthouse. Children then enter the lighthouse and climb to the top and view a periscope.
5. Waterfall-Children pass under the waterfall, cross over the swinging bridge, and enter the whale’s tail.
6. Whale’s Tail – Children slide down the whale.
7. Magnetic Wall- Children create an under the sea mural with magnetic sea creatures.
8. Activity Corner – Children can remove the sea creature puzzle piece under the great white shark and replace each piece in its proper places. They can raise, lower or turn sea star knobs.
9. Super Carville- Children don a life jacket, crawl into a raft and ride the waves of the ocean.
10. Kelp Forest- Children pretend to be a fish and swim through the kelp.
11. Tree House- Children climb to the top of the tree and look out over the *Wonder Wing*.
12. Tike Theatre –Children can dress as a pirate or mermaid, or put on a puppet show.
13. Ships Galley- Children reenter the ship and prepare a meal for the ships crew.
14. Underwater Tunnel- Children watch the fish swim in the aquarium and find the sunken treasure chest.
15. Everglades Room- Children enter to construct a craft and hear a story.
16. Conclusion- Complete the tour and exit the Museum.

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Pre-Visit Activity Ages 3-4

1. Discuss the following characteristic of a fish:

Shape of their body

Gills

Bones

Fins

Scales

Cold Blooded

Habitat

2. Read the story book *Swimmy* by Leo Lionni (See Children's Books)

3. Discuss the story and ask the following questions.

a. Is swimming different? How?

b. Name creatures that Swimmy sees in the story.

c. Why is it important to form a school of fish?

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Pre-Visit Activity Ages 3-6

1. Introduce an ocean theme with Show and Tell. Have each child bring in a picture, a book, a toy or an item related to the ocean. Learn what the children already know about the ocean from their explanation of the items.
2. Make a list with the children developing ideas they want to learn about the ocean.

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Pre-Visit Activity Ages 3-4

1. Read the Story *Baby Beluga* by Raffi (See Children's Books).
2. Have the children listen to the song.
3. Teach the song to the children.
4. Duplicate the picture of the Beluga whale on the following page and have the children color it.
5. Have the children hold up the pictures as they sing the song.

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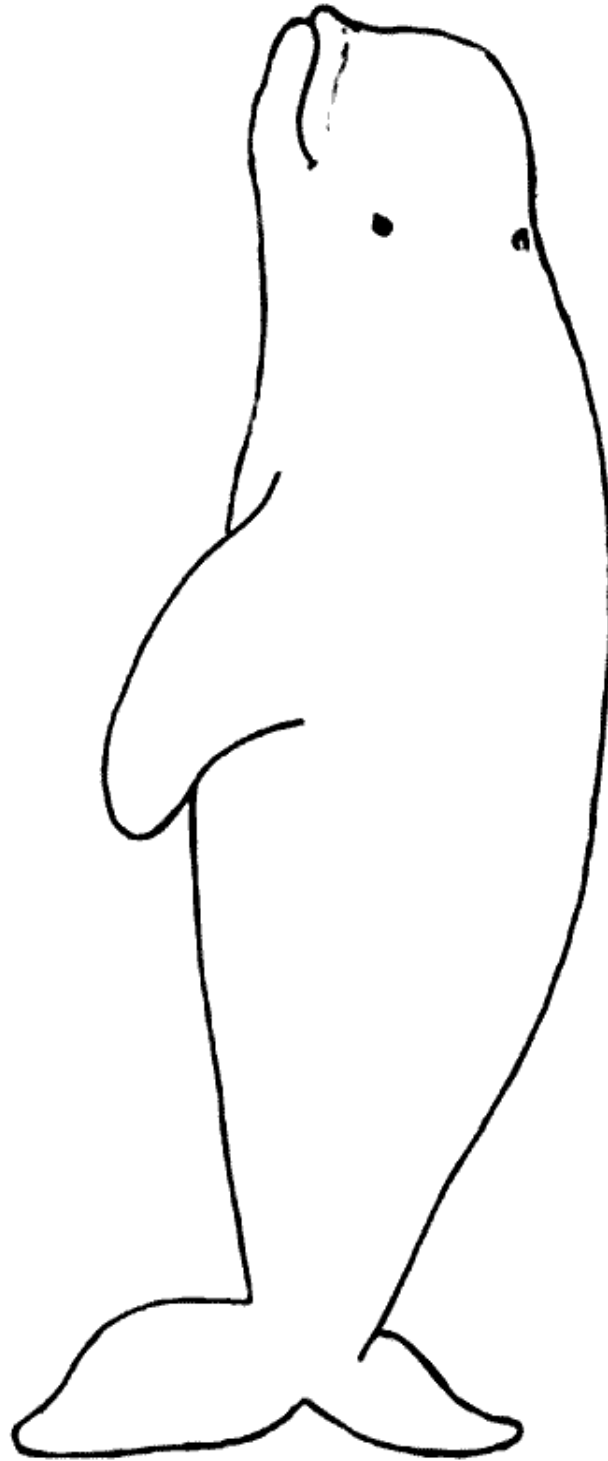
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Beluga Whale Pattern



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Pre-Visit Activity 3-6

1. Decorate a larger cardboard box with blue construction paper to resemble the ocean. Fill the bottom of the box with sand.
2. Gather 2 to 4 different types of seashells and have at least 3 seashells of each type (class, oyster, whelk, scallop, conch, cowries).
3. Bury the seashells in the sand.
4. Let a few children at a time find the seashells and take them out of the box.
5. Have the children sort the seashells according to the types.
6. Have the children count the seashells.
7. Let the children bury seashells for the next group of children to find.

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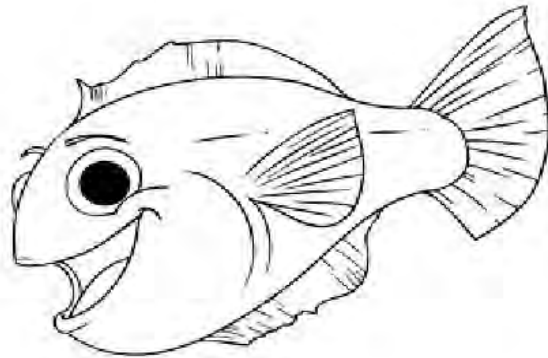
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Pre-Visit Activity Ages 3-4

1. Color only the pictures of the animals that live in the ocean.



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Pre-Visit Activity Ages 5-6

1. Create a picture graph on poster board using the sea mammals on the following pages.

2. Trace the pattern of the sea mammals onto tag board and cut out. Make more patterns than number of children in the class.

3. Give each child a pattern of a sea mammal to trace, color and cut out. Make sure you distribute a different number of each sea mammal. For example, for a class of 14 you could pass out 5 dolphins, 6 whales, 3 sea lions, and 1 walrus.

4. Have children identify their sea mammals and tape them on the chart next to the appropriate sea mammal.

5. Ask children questions about the chart.

- How many sea lions are there? (Whales, dolphins, walrus)
- Which row has sea lions?
- How many different colors of sea lions do you see?
- Which row has the most sea mammals?
- Which row has the least sea mammals?

6. (Options) create a bar graph with the sea mammals.

- Keep vertical side of graph labeled with sea mammals.
- Label with numbers along the horizontal side of graph.
- Remove all of the children's cut outs of sea mammals and return the sea mammals to the children.
- Have child fill in a graph block for their sea mammal with markers.
- Interpret the bar graph in a graph by asking the same n as asked about the
Picture graph

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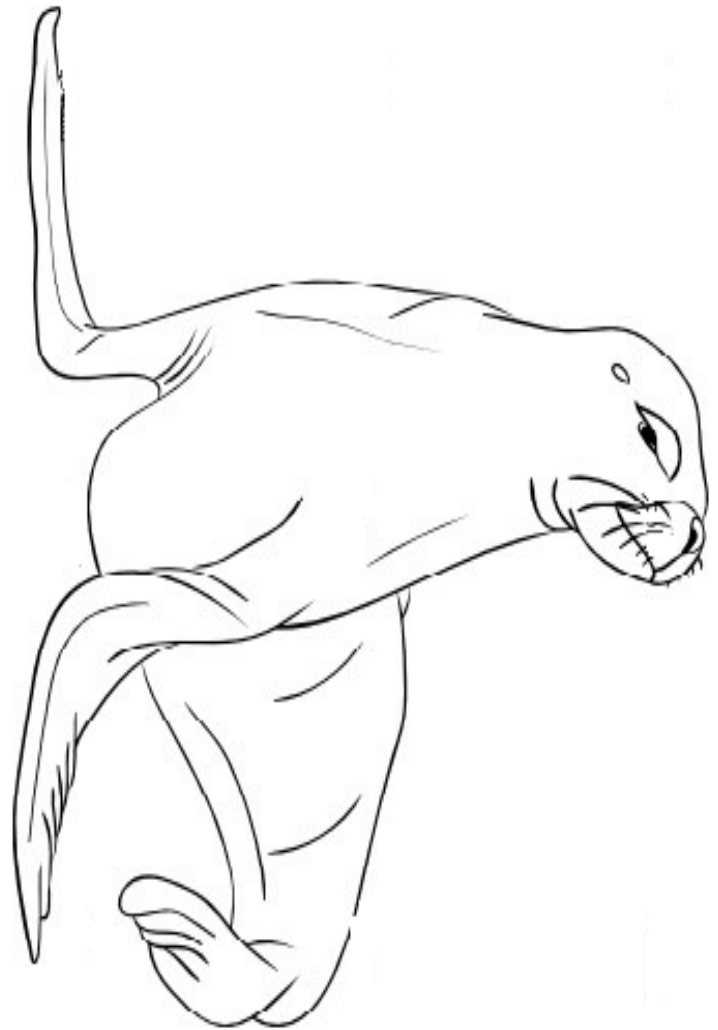
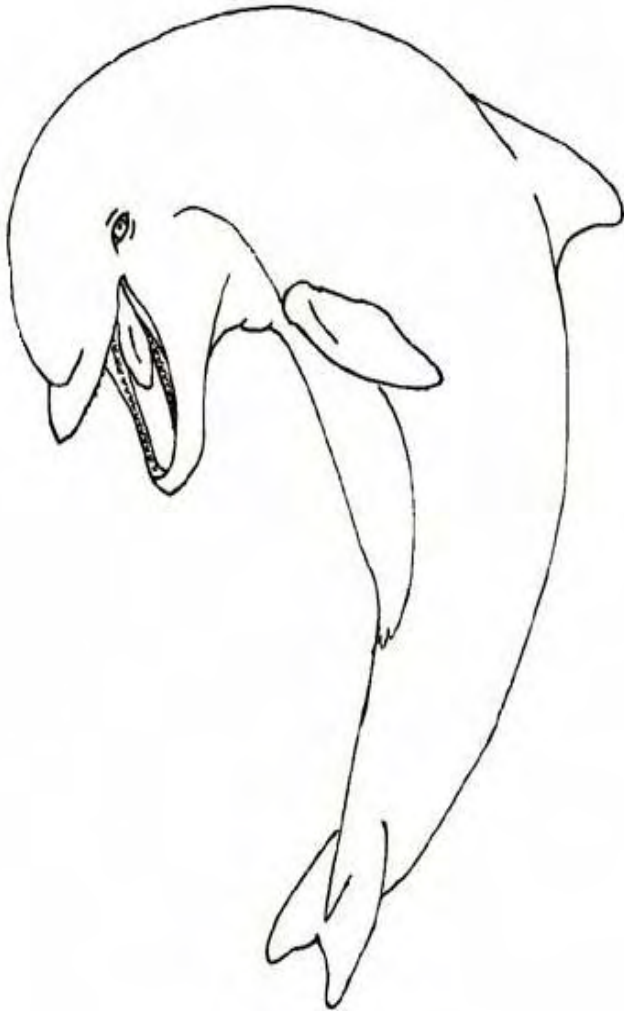


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Mammal Stencil Pattern

Dolphin

Sea Lion



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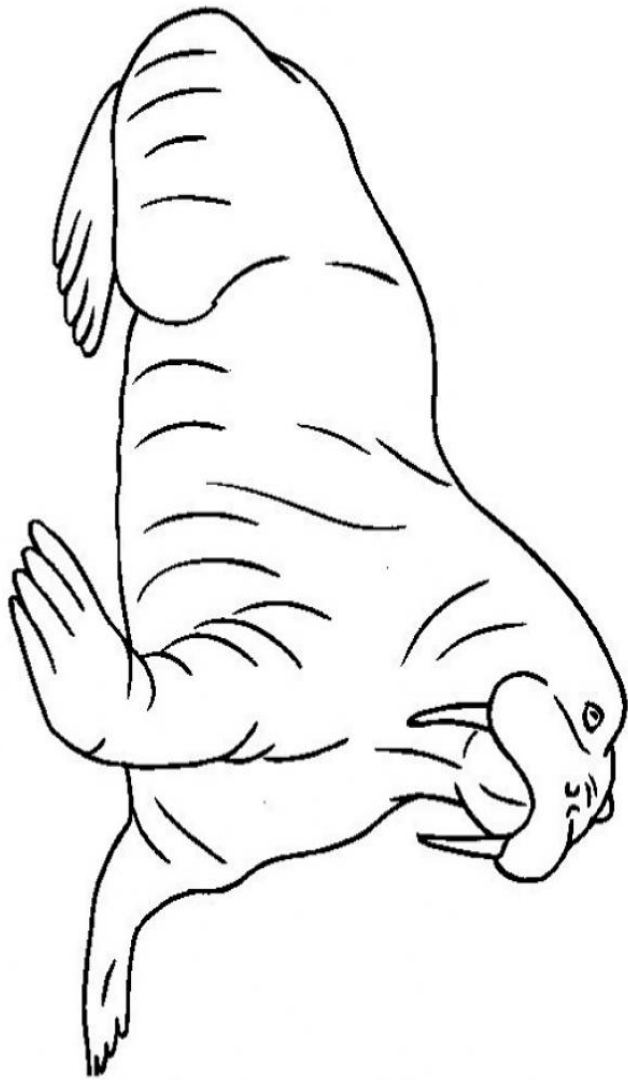




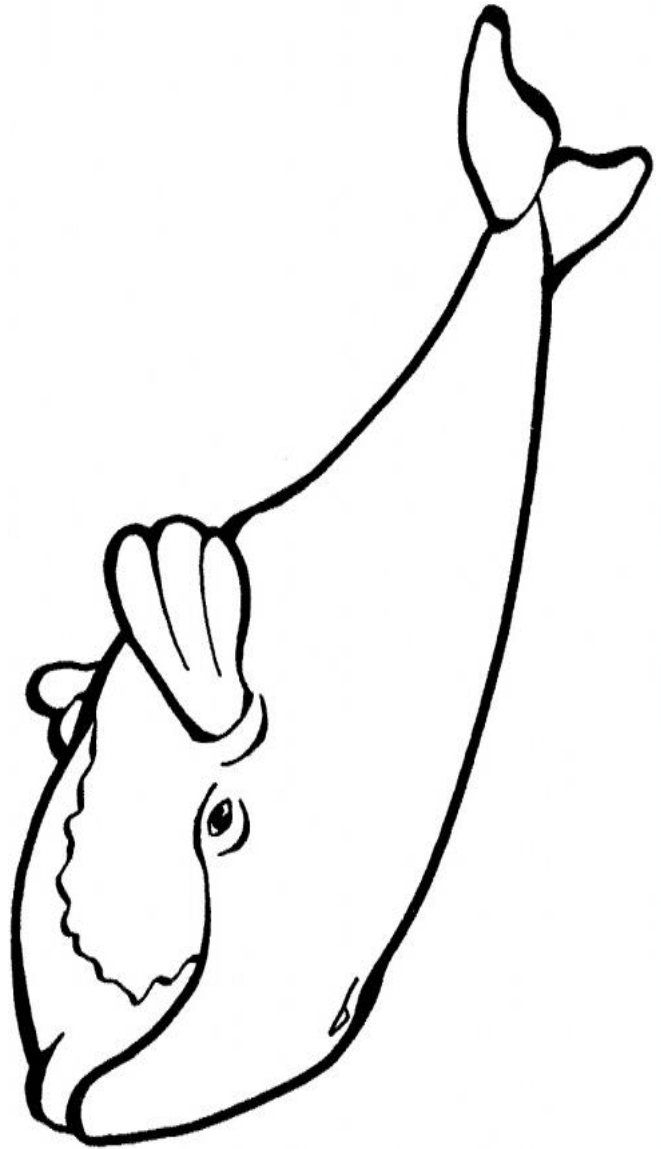
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Mammal Stencil Pattern

Walrus



Whale



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Post- Visit Activity Age 3-6

1. Have children draw a picture of what they likes about their visit to the *WonderWing*.

2. Write a caption under the picture using their names.

Jane liked _____.

John liked _____.

3. Collect all pictures to put together for a storybook.

4. Create a cover using the title "*Our Visit to the WonderWing*"

5. Read the book to the class.

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Post-Visit Activity Ages 3- 4

1. Trace the fish pattern from the following page into tag board.
2. Copy the fish pattern onto white construction paper for every child.
3. Ask the children to look at the shape of the fish.
4. Ask the children the following question:
 - a. How does a fish see? (Eyes)
 - b. What does a fish need to be able to swim? (Fins)
 - c. What does a fish have on its body to protect its skin? (Scales)
 - d. How does a fish breathe? (Gills)
 - e. Where does a fish put its food? (Mouth)
5. Have the children draw the answers to the questions on the fish's body with a crayon or marker
6. Punch a hole in the top of the fish. Put yarn through the hole to make a necklace. The fish can also be displayed on the bulletin board for everyone to see.

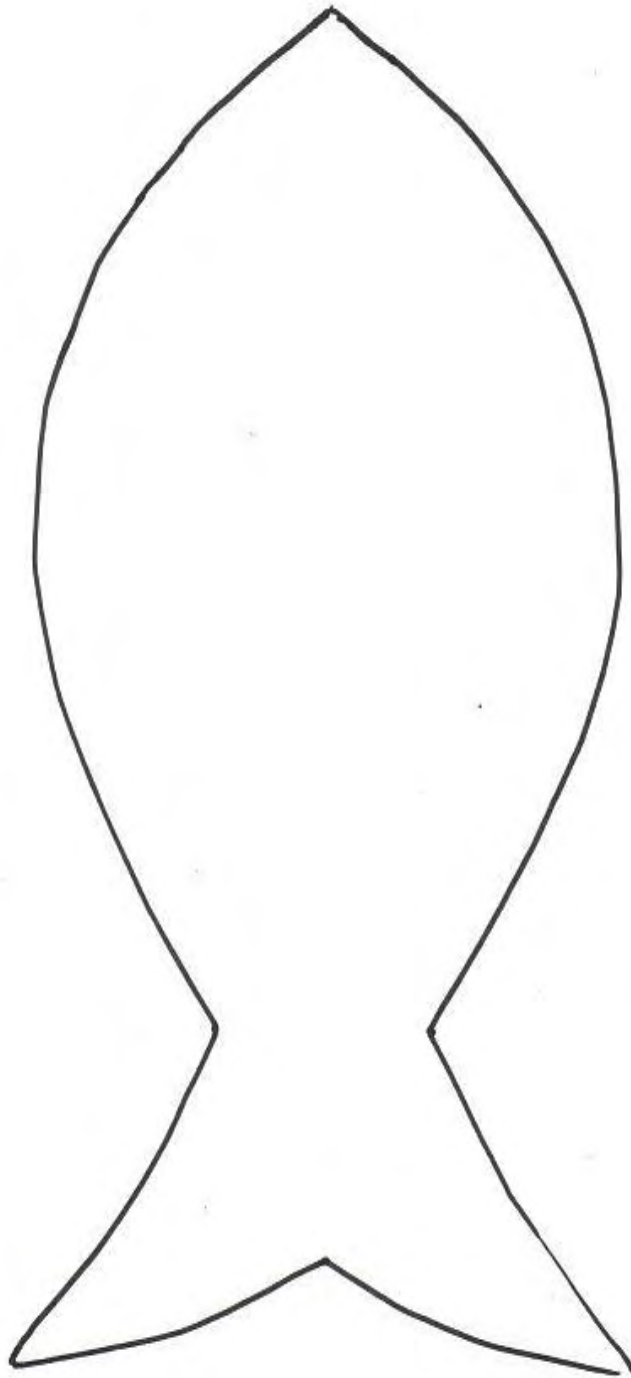
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Fish Pattern



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Post-Visit Activity Ages 5-6

1. Create a texture poster showing the following the relationship of air, land, and water.
2. Gather together materials that you can use to create your poster.
3. The following materials can be used:
 - Light blue poster board
 - Crumpled brown paper bag for the ocean floor
 - Goldfish crackers for the sea life
 - Brown pipe cleaner for kelp
 - Sand paper for the beach
 - Green yarn for the grass
 - Craft stick and construction paper for a tree
 - White cotton balls for the clouds
 - Yellow felt for the sun
4. Glue the materials on the poster board.
5. Display the poster in the classroom

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Post-Visit Activity Ages 5-6

1. Discuss water pollution and its effect on sea life.
2. Have children make anti-pollution signs titled Keep Our Ocean Clean.
3. Display the signs in a place where adults will be able to see them such as a school hallway or on a hall bulletin board.
4. Rent the Monmouth Museum's "Keep Our Water Clean" Travel Trunk for additional activities.

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Post- Visit Activity Ages 5-6

1. Review the levels of the ocean discussed during the *WonderWing* tour.
2. Create a mural size picture of the various levels of the ocean.

Sunlight Zone Color Light blue
Twilight Zone Color Dark Blue
Zone of Perpetual Darkness Color Black

3. Collect pictures of fish and sea mammals and display randomly next to the mural.

For example the following fish maybe used:

Dolphin, killer whale, tuna fish, hammerhead shark for Sunlight zone

Leatherback turtle, swordfish, squid for Twilight zone

Angler, gulper eel, hatchet fish for Zone of Perpetual Darkness

4. Ask each child to place the sea creature in the correct level of the ocean

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Post-Visit Activity Ages 4-5

1. Collect items pertaining to the ocean i.e. Shells, pictures, boats, toy fish, and mammals
2. Hide the collected items throughout the classroom.
3. Distribute small blue bags or white lunch bags and let children color the bags blue to resemble the ocean.
4. Tell each child to find five of the hidden ocean items and place them in their bag.
5. Instruct children to return to their seats after finding the five ocean items.
6. Children empty their bags and place the items they found on their desk.
7. Have children draw the items they found on the outside of their ocean bag.
8. Let children take their bag home to share with their family.

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Post- Visit Actively Ages 5-6

1. Discuss water safety tips for swimming and boating.
2. Divide children onto 3 groups for a cooperative activity.
3. Give each group a topic i.e. Boat Safety, Beach Safety, or Swimming Pool Safety
4. Pass out banner size paper to each group.
5. Have each group make a banner on their topic.
6. Display the banners for all children to see.

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Post-Visit Activity Ages 3-6

1. Write a rebus (picture) story with the children about endangered sea animals.
2. Use a large piece of white paper and tape it to the wall.
3. Draw an endangered sea animal on the paper. (whale, manatee, sea otter, sea turtle)
4. Start the story for the children.
5. Have each child tell a part of the story.
6. Draw as many of the words in the story as you can.
7. After every child has a chance to tell a part of the story, write an ending to the story.
8. Have the children read the story out loud.

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Glossary

Atlantic Ocean

The second largest body of salt water. It touches the New Jersey coastline.

Angelfish

A bright colored fish with a distinctive shape found near coral reefs and often in aquarium. They feed on sponges

Barracuda

A carnivorous marine fish, which has a jutting lower jaw, fang teeth and torpedo shaped body.

Black Loose jaw

A type of dragon fish that lives in the deep part of the sea. It has an expandable jaw that makes it possible to eat very large prey.

Most have luminous chin barbells

Brain Coral

A hard coral that is easy to identify because it is made up of a group of incomplete polyps that curve around to form a head that looks like a brain.

Clownfish

A bright orange fish with white and black lines. It is also called an anemone fish (uh-Nem-eh-nee-fish) because it lives in close association with the sea anemone.

Coral

A coelenterate found in tropical water and is characterized by a limestone skeleton secreted by each animal polyp. It extends its tentacles to pull food in it's into digestives cavity

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Deep Sea Angler

A deep sea fish with a large mouth and long teeth. The female has a bulb-shaped lure that contains luminescent bacteria to attract fish.

Dragon fish

A long, scaled, snake-like fish with a strong jaw and needle like teeth that lives in the deep part of the ocean. The female has a long barbell extending from its chin that lights.

Gulper Eel

A serpentine shaped fish with an umbrella shaped mouth that can swallow large prey. It contains a light organ at the tip of its body.

Fish

Cold- blooded aquatic vertebrates having gills, scales, and fins.

Flashlight Fish

A fish with a light organ under each eye. They are found in the caves at the bottom of the coral reef

Hatchet Fish

A very small silver fish found in the ZPD. They have large bulging eyes, a mouth that slants upward, and light organs on the underside of their body.

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Kelp

Large brown seaweed with flattened leaves.

Lighthouse

A tower with a light to guide ships.

Porcupine fish

A fish found in warm waters. It is covered with spines that becomes erect as the fish inflates itself by swallowing air or water.

Seahorse

Bony plates cover the body of this fish with a horse-shaped head. It has a coiled body and a caudal (tail) fin.

Sea mammals

Warm blooded animals that come to the surface to breath air through lungs, have live babies that receive care and milk from their mothers, and are covered with fur or sparse hair.

Sea Stars

A marine creature commonly called a starfish that has a disk body with 5 or more radiating arms.

Sea Turtles

Reptiles that live in warm oceans. Some species lives 100 years or more.

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Squid

Ten armed cephalopod having a long tapered body and caudal fins on each side of its body. They squirt ink to confuse an attacker.

Shark

Fish with cartilage instead of bone, 5-7 gill slits and an upper tail lobe longer than the lower lobe and razor sharp teeth.

Sting Ray

Fish with cartilage with one or more sharp barbed dorsal spines near the whip-like tail, which is capable of inflicting pain.

Viperfish

A deep sea fish with a long body and very large teeth with curly fangs. Its body is darkly pigmented with lights on its belly and on the end of its fin.

Water Pollution

Styrofoam, plastic, balloons, garbage, and chemicals found in the water that harms or kills ocean life.

ZPD

Zone of Perpetual Darkness is the deepest layer of the ocean reaching all the way to the ocean floor. This region or zone is very cold and totally dark because sunlight cannot reach this far.

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Web Resources

Children's Ocean Lessons-<http://www.atozkidsstuff.com>

Ocean Crafts-Ocean Preschool Activities-<http://www.kidsoup.com>

Ocean& Sea Creatures- <http://www.teachers.net>

Ocean Themes-<http://www.lessonplanet.com>

Sea Animals- <http://www.seaworld.com>

Treasures@ Sea- <http://www.fi.edu>

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