



2022 FLYP
Summer Library Program

Activity Packet K-5

Included:

Measuring the Sea

Mermaids

Florida Symbols



FLORIDA MEMORY
State Library and Archives of Florida

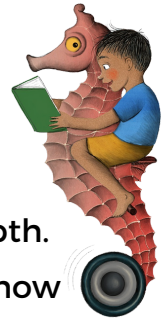


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Measuring the Sea



A **leadline** is an instrument used in navigation to measure water depth.

Leadlines have been used since the fifth century BCE. They measure how deep the water is and help people identify what's on the bottom of the sea floor.

The lead weight at the bottom of the leadline is cupped inward and people would fill it with something sticky to bring up samples from the sea, like sand, gravel, and mud. This is called "arming the lead."

Nowadays, people typically use sonar and radar to measure the sea.



Florida Memory Scavenger Hunt

1. Go to bit.ly/flmemtortuga
2. View "Tortugas and Florida Keys Nautical Charts c. 1790."
3. Who created the map? _____
4. What colors of sand did they find? _____
5. What other materials did they find on the bottom of the sea? _____



Dive in with an Activity! Measure the Sea

Materials

- Copy paper boxes
- Small boxes of varying sizes
- Ruler
- Wooden skewers
- Multi-color markers
- Paper & pencil

Steps

- Arrange the smaller boxes in the big boxes so that there are different "depths."
- Tape the lid on the box.
- Draw grid lines on the top of the copy box and poke holes where the lines intersect.
- Put a skewer in one of the holes until it hits the "bottom of the sea" and use a marker to mark the skewer at the opening of the hole.
- Use the ruler to measure the distance from the bottom of the skewer to the mark.
- Record the results on the paper.



Images: Siemens STEM Day



Mermaids



Stories about mermaids go back thousands of years, and many famous explorers reported their own mermaid sightings on the high seas. In the 1500s, mermaids appeared on maps along with sea monsters.

View one such map on the Library of Congress website:
loc.gov/item/map49000970



Florida Memory Scavenger Hunt

1. Go to bit.ly/flmemweeki
2. Watch the "Beauty in the Deep" video.
3. How did the mermaids breathe underwater? _____
4. What year was the video created? _____
5. What food did the mermaids eat underwater? _____



Dive in with an Activity! Mermaid Rocks

Materials

- Rocks for painting
- Acrylic paints
- Paintbrushes
- Fine-tipped paint pins or metallic sharpies
- Modge podge or spray sealant

Steps

- Clean and dry rocks.
- Paint 2-3 colors on the rocks and blend paint together.
- Let the rocks dry completely.
- Draw scales, making sure to offset the row below.
- Once dry, seal with modge podge or sealant.



Images: Project with Kids

Florida Symbols



Did you know that Florida has several underwater state symbols?

Manatees are the State Marine Mammal. The State Saltwater Mammal is the porpoise or dolphin. In 1975, Florida named the Atlantic sailfish as the state's official Saltwater Fish. Florida's largemouth bass is the State Freshwater Fish.



Florida Memory Scavenger Hunt

1. Go to bit.ly/flmemdolphin
2. What type of dolphins are in the photograph? _____
3. Where was the photograph taken? _____
4. What year was the photo taken? _____
5. How would you describe the animal to someone who has never seen it?



Dive in with an Activity! Dolphin Echolocation Game

Materials

- One to two blindfolds
- Open space

Game Set-Up

- One child is the blindfolded "dolphin."
- One child is the "fish."
- Remaining children form a circle around the fish and the dolphin.

Steps

- The dolphin yells the word "fish" as much as they want.
- The fish must respond with "fish."
- The dolphin must follow the sound of the fish to tag the fish.
- The kids in the circle help keep the dolphin in the circle.
- Adapt the game by adding more dolphins or more fish.

Additional Activities



- **Sand Science Experiment**

- Explore different types of sand under a microscope.
- sciencekidsathome.com/science_experiments/sand_1.html



- **Tail Mail**

- Write a letter to a mermaid at Weeki Wachee.
- floridastateparks.org/TailMail

- **Manatee Bone Puzzle and Buoyancy**

- Learn about a manatee's bone structure, and how they float.
- visitmanateelagoon.com/sites/default/files/Make-a-Manatee-Bone-Puzzle-and-Manatee-Buoyancy-Lesson.pdf

- **Coffee Filter Dolphin Craft**

- Create a colorful backdrop on coffee filters for your dolphin.
- memorizingthemoments.com/2012/10/coffee-filter-dolphin-craft.html

- **Salt Water Density Experiment**

- Create water with different density levels.
- sciencekiddo.com/salt-water-experiment-ocean-science



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Resources



Measuring the Sea

seahistory.org/sea-history-for-kids/leadline
siemensstemday.com/educators/activities; *Sonar*

Mermaids

loc.gov/item/map49000970
kidslovewhat.com/under-the-sea-24-mermaid-crafts-that-will-make-a-splash

Florida State Symbols

dos.myflorida.com/florida-facts/florida-state-symbols



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