

## Human Impact Lab: Deep Sea

### Loggerhead Marinelifelife Center

Loggerhead Marinelifelife Center is an ocean conservation organization and sea turtle hospital located adjacent to one of the most important sea turtle nesting beaches in the world. The Center features an on-site campus hospital, research laboratory, educational exhibits and aquariums, and also operates the Juno Beach Pier, which hosts world-class angling and sightseeing. The Center's conservation team works with 76 local and international organizations across six continents to form partnerships and share conservation initiatives and best practices that are core to its mission of ocean conservation. The Center is expanding and has launched its Waves of Progress capital expansion campaign, designed to accelerate and amplify LMC's conservation and education impact.

Our mission is to promote conservation of ocean ecosystems with a special focus on threatened and endangered sea turtles. Our vision is to be recognized locally and internationally as the leading authority in sea turtle education, research and rehabilitation.



### Lesson Objectives

- I can describe the challenges animals face in the deep sea.
- I can describe two deep sea habitats.
- I can observe adaptations used by deep sea animals to survive.

### Vocab

- Bioluminescence - the biochemical emission of light by living organisms such as fireflies and deep-sea fishes
- Vertical migration - the synchronized movement of zooplankton and fish up and down in the water column over a daily cycle.
- "Marine snow" - a continuous shower of mostly organic detritus falling from the upper layers of the water column.
- Filter Feeding - (of an aquatic animal) feeding by filtering out plankton or nutrients suspended in the water
- Seamount - a submarine mountain.
- Hydrothermal Vent - a fissure on the seafloor from which geothermally heated water issues

### Resources

Activity: <http://stem-works.com/external/activity/465>



Visit [Marinelife.org](http://Marinelife.org) to learn more about Loggerhead Marinelifelife Center!

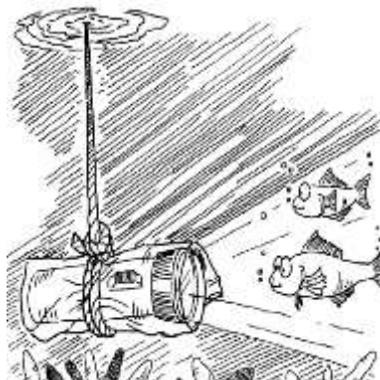
# Underwater Night Life

Activity from: <http://stem-works.com/external/activity/465>

Some water-dwellers are more active at night than during the day. Learn how to observe the underwater night life up-close.

What you'll need:

- Strong flashlight
- Plastic bags
- Tape
- Rope or string
- Notebook
- Pen



How to Observe Underwater Night Life:

Step 1: Have an adult go along with you for this project. At night, go down to a dock or a similar place where you can look down into water at least a few feet deep. You could also go out on a pond in a boat. Whether on a dock or a boat, always put on a life vest for safety.

Step 2: Seal a flashlight into a plastic, zipper-type bag. Roll the bag around the flashlight, then seal it in a second bag. Tape the edges for a watertight seal.

Step 3: Tie a light rope or heavy string to the flashlight, turn it on, and lower it down into the water.

Step 4: Wait patiently, and soon the light will attract curious creatures. See what kinds of fish and other creatures are active at night.

Step 5: Keep a nature notebook. Draw what you see and try to identify the animals. Try this in several different areas and compare. See what differences there are between different bodies of water.