

“No water, no life. No blue, no green.”

-Sylvia Earle

STEM in the News

Plastic has played a big part in today's society, like bottles, bags, toys, candy wrappers and more.

If these plastics are not recycled or thrown away



then they

eventually make

their way to the

ocean. The

ocean takes up

the plastic and

then it harms some of life's precious animals. If we do not follow recycling plastics or even trash, then the oceans will be in great danger.

STEM Career Spotlight

Commercial Diver is the job for you if you wish you could spend all your time underwater. Their job is to use scuba equipment to repair, inspect, install, or remove equipment or structures. They also get to also test “underwater explosions” and photograph marine life and any underwater formations. The average hourly wage for the divers is \$23.63. They get paid on a yearly average of \$49,140.

STEM in History

Oceanography may be one of the newest fields of science, but its roots several years in the past when people began to travel from coastlines in rafts. In fact, the first oceanic exploration can be traced back to around 5000 B.C. with the first diving and sailing vessels. These first explorers, navigators and oceanographers began to pay attention to the ocean in many ways including observing waves, storms, tides, and currents that carried their rafts in certain directions at different times. They sought food such as fish, soon after they realized that although river and ocean water did not look very different, ocean water is salty and undrinkable. Their essential understanding of the ocean and their experiences were passed down over thousands of years from generation to generation in myths and tales.

STEM Across the Curriculum

Disciplines- science, technology

Activity- Use a device to research how fish are able to breathe in water. For example, Figure out how the gills work. Once you have the information, study it and ask your parents to quiz you on it.

STEM Movies

In the Heart of the Sea describes an incredible story that is based on true events. In 1820, crewmen aboard The New England vessel

IN THE HEART OF THE SEA



Essex were facing a harrowing battle for survival when a whale of mammoth size attacked, crippling their ship and leaving them adrift in the ocean. The ocean was pushing their limits while facing storms,

starvation, and panic and despair so they must resort to the unthinkable to stay alive. This event Herman Melville to write “Moby-Dick”.

“Live in the sunshine, swim in the sea, drink the wild air.” -Ralph Waldo Emerson

#STEM@ADM Spotlight

Alice Drive Middle School’s Go Green class emphasized the importance of recycling. It teaches students not to throw plastic into the ocean, and how it affects the oceans’ ecosystems and the animals that live in that ecosystem. They learn that the animals can get harmed in several different ways by the plastic.

Famous STEM Person

Charles Darwin was an English naturalist, geologist, and biologist. He is best known for his contributions to the science of evolution. His proposition that all species of life have descended over time from common ancestors is now widely accepted, and considered a foundational concept in science.

STEM Challenge

Do you like the beach? Lets make some sand slime!

Materials: ½ cup of clear school glue, bowl, ½ cup of water, sand, and ¼ cup of liquid starch.

Step 1: Grab your ½ cup of clear glue and pour it into a bowl.

Step 2: Add ½ cup of water to the glue and stir.

Step 3: Add a couple teaspoons of sand to the mixture.

Step 4: Grab ¼ cup of liquid starch and mix it with your mixture.

Step 5: Play with the slime until it thickens up.

Step 6: Keep kneading it until it starts to feel like a slimy consistency .

Step 7: Enjoy your new sandy slime!

<https://littlebinsforlittlehands.com/homemade-sand-slime-recipe/#:~:text=STEP%201%3A%20Measure%20and%20add,to%20your%20bowl%20and%20stir.>

STEM Fact

Our oceans cover more than 70 percent of the Earth’s surface.