



## **MARINE SCIENCE**

Wednesdays, January 24-May 1

No class February 21, March 13 or April 3 (12 weeks)

11:00am-12:15pm

Ages 6-10

Students dive in to investigate the ocean and its inhabitants. We study ocean habitats, classification of marine organisms and their anatomical adaptations, and how we can protect the oceans of the world. Each lab includes hands-on science and experimentation. All lab costs are included in registration fee.

### **LAB SCHEDULE:**

**SAND AND SEA SALT** – Wednesday, January 24

Students investigate how sand is made, what makes the ocean water different than the water found in rivers and lakes and investigate the components that make up each.

**CURRENTS, WAVES AND TIDES** – Wednesday, January 31

We investigate how water travels around the world, why it moves the way it does and what forces move it around.

**OCEAN EXPLORATION** – Wednesday, February 7

How much do we know about the ocean? If 80% is unmapped, unobserved and unexplored, how can we find out more? Students discover how scientists explore the deep ocean, and the technology it takes to get us there.

**MARINE PLANTS** – Wednesday, February 14

Students explore the plants of the ocean and how they differ from the plants on land. We learn about the adaptations of different species and conduct an experiment to see how marine plants survive in this salty environment.

**JELLYFISH AND THEIR RELATIVES**– Wednesday, February 28

We investigate the similarities and differences between two of the classes in the phylum Cnidaria – jellyfish and coral.

**ARTHROPODS** – Wednesday, March 6

This week, we explore the largest phylum in the animal kingdom. Students compete in games to learn about food webs and how these animals play a vital role in the health of our oceans.



### **SEA STARS AND URCHINS – Wednesday, March 20**

Students investigate what makes sea stars and sea urchins unique. We explore where echinoderms live, what they eat, and how they behave to see how these animals fit into the ecosystem.

### **MOLLUSCS – Wednesday, March 27**

This week, we compare the biology and ecology of three common classes of mollusc – bivalves, gastropods and cephalopods. We study their role in food webs, and how the diversity of body plans helps them thrive in different marine habitats.

### **FISH IDENTIFICATION – Wednesday, April 10**

We study fish families this week - how to identify them and where they live. Students also combine anatomy and art as they try their hand at the traditional Japanese art of fish printing: gyotaku.

### **SHARK SCIENCE – Wednesday, April 17**

Students become shark biologists by learning how researchers tag and track sharks across the world, studying their teeth to learn about their diet, and investigating adaptations of a preserved spiny dogfish shark.

### **MARINE MEGAFUNA – Wednesday, April 24**

We learn about the anatomy and ecology of some celebrated reptiles and mammals that call the ocean their home and we compare and contrast them with fish to understand the adaptations that allow them to survive in water.

### **PROTECTING OUR OCEANS – Wednesday, May 1**

We study impacts on marine ecosystems, investigate how we can protect our oceans and their inhabitants, and design engineering strategies to effectively clean an oil spill.

Location: Science Center (suite 5)

Full semester - \$264 OR \$24/lab

10% sibling discount