

MARINE SCIENCE

Wednesdays, January 29-April 29 (no class February 19 or April 8; 12 weeks)

11:00am-12:15pm

Ages 8-10

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. Course enrollment is limited to 12 students.

Instructor: Tina Oresteen, BSc

Location: Science Center (suite 5)

Course fee: \$220 OR \$20/lab

10% off early registration discount through December 15

10% off sibling discount available beginning December 16

LAB SCHEDULE:

Sea Salt – Wednesday, January 29

Students investigate a major components of ocean water and what makes it different than the water found in rivers and lakes.

Currents, Waves and Tides – Wednesday, February 5

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 12

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.

Plankton – Wednesday, February 26

Students explore types of plankton and how they fit into the food chain. We look at the life phases of brine shrimp and experiment with their phototactic behavior.

Jellyfish and Their Relatives– Wednesday, March 4

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

Crustaceans – Wednesday, March 11

This week, we explore the largest phylum in the animal kingdom. We investigate the external and internal anatomy, and study their adaptations of arthropods to see what makes them so successful.

Sea Stars and Urchins – Wednesday, March 18

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 25

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 1

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 15

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.

Shark Relatives – Wednesday, April 22

We learn about the anatomy and ecology of other cartilaginous animals by comparing and contrasting these fish to their shark relatives and other marine vertebrates.

Protecting Our Oceans – Wednesday, April 29

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.

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