

We take students to the intersection of education and fascination.

AVAILABLE DIGITAL CONTENT

MARINE SCIENCE 101

Semester Science Elective

SHORT COURSES

Ocean Literacy Marine Ecology The Truth About Sharks Sea Turtle Ecology Caribbean Fish Identification Red Sea Fish Identification Indo-Pacific Fish Identification Natural History of Caribbean Coral Natural History of Red Sea Coral Natural History of Indo-Pacific Coral Beaver Ecology

EXPLORER SERIES

Camouflage Cleaning Stations Coral Reefs Green Sea Turtles Manta Rays And Many More!

VIRTUAL FIELD TRIPS & 360 LESSON PLANS

DEEP DIVE BUNDLE



MARINE SCIENCE 101

This integrated semester course is designed to reinforce biological, physical, and Earth science content. Marine Science 101 prepares students to explore the ocean by investigating the biodiversity of life that fills this vast space and the remarkable ecosystems in which they live.

STUDENT GOALS:

- Characterize the similarities Analyze anthropogenic and differences between marine vertebrates and invertebrates.
- impacts to the ocean and its inhabitants.
- **Discuss** the impact that ancient and present-day explorers have on our knowledge of the ocean.
- Compare and contrast the habitats found throughout the world's ocean.

Differentiate the life history of elasmobranchs from bony fish.

- Recognize male and female sharks.
- Compare the various modes of elasmobranch embryonic development.



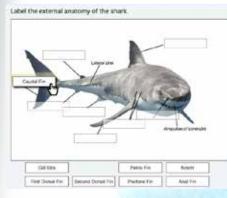
which means they have a life history strategy featuring slow growth, delayed maturity, long gestation and relatively few offspring. This is in contrast to bony fish, which are R-selected species and grow quickly, mature early, and lay hundreds and even

Sharks are K-selected species.

thousands of eggs in a reproductive event. These fundamental differences in life histories explain why sharks are in global decline. Sharks are being fished out of the ocean faster than they can replace themselves.



EACH DIGITAL LESSON PROVIDES STUDENTS WITH CLEAR LEARNING OBJECTIVES, ENGAGING TEXT, **HIGH-QUALITY IMAGES, & INSTRUCTIONAL VIDEOS!**



Higher level depth of knowledge is assessed through interactive questions.



feet, useful for slow m



class live attached to alks. Others crawl about or which are also

spension feeding. Sea Illies can ha to more than 200 arms reaching out feet. The arms have a series of joints to have in the num

Additional information is provided for diving deeper into concepts.



SHORT COURSES

Enhance your blended learning with our marine science short courses. Aligned to state standards and the Next Generation Science Standards (NGSS), each course supports biological, physical, and Earth sciences to integrate with your current content pacing plan.



Independent Study





Direct Instruction

SHORT COURSES PROVIDE STUDENTS EXPERIENCES TO LEARN HOW:

 Energy transformations are analyzed when energy from the sun is converted to matter and moved through marine food webs and ecosystems.

- Evolution is investigated through the migratory pattern of sea turtles for comparison to other types of animal movement.
- Adaptations are examined by characterizing shark behaviors based on their habitat.
- Ecosystems are evaluated through coral reefs and their importance and impact on the world.



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EXPLORER SERIES

Discover a variety of marine science videos, vivid imagery, important facts, and compelling questions within bite-sized snippets, specifically designed to introduce new concepts in the classroom. Each Explorer Series is comprised of a narrated, high-definition video that introduces the topic, a list of interesting facts, and a set of questions to continue the discussion.

VIRTUAL FIELD TRIPS & 360 LESSON PLANS

Experience the world in an exciting new way. Students can dive beneath the waves, hike through distant rainforests, and become immersed in other cultures, all without leaving the classroom. Each virtual field trip and 360 lesson plan is aligned to NGSS and designed for three-dimensional learning, is device agnostic, and complete with 5E lesson plans, teacher guides, and assessments. Classroom walls have fallen and your students are now in the driver's seat.

INSPIRE **NEW** DEPTHS.

WHO WE SERVE

Ocean First Education provides engaging digital marine science curricula for K-12. We incorporate the latest research and technology by delivering learning experiences that are seamless for teachers to implement in their classrooms. We involve students in the learning process with interactive activities and high-definition imagery. All of our courses are aligned with state standards and NGSS, and our courses offer a safe, secure, and ad-free online learning environment.

TEACHERS AND EDUCATORS

Our materials help support classroom curriculum and we also provide opportunities for professional development.

SCHOOLS AND DISTRICTS

Our thought-provoking and engaging marine science curricula and experiential programs help teachers inspire interest and action in their students.

HOMESCHOOL AND INDEPENDENT LEARNERS

Homeschool and independent learners can discover something new with our content-rich coursework and Explorer Series, potentially fulfilling graduation or alternative pathway requirements.





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