

# Marine Science 101



Over 70% of Earth is covered by water. Explore the great biodiversity of life found in this dynamic ecosystem. Study ocean history and changes across time, which have affected life in the sea and its physical attributes. The ocean and life within it interact and depend upon each other in amazing and intricate ways. As part of the Earth's ecosystem, how do we, as humans, impact life in the ocean and what can we do as scientists and citizens to respect, appreciate, and care for our precious ocean.

## Learning Goals

- Investigate the largest biome on Earth, the ocean, home to the greatest biodiversity on the planet.
- Analyze how the ocean and its inhabitants have changed over time and continue to do so.
- Identify the contributing factors that cause ocean currents and how this affects life on Earth.
- Recognize the natural and anthropogenic impacts to the ocean and its inhabitants.
- Review the history of ocean exploration and learn about the maritime research that continues today.

## Units

1. Biodiversity of the Ocean
2. An Evolving Ocean
3. Ocean Ecosystems
4. A Dynamic Ocean
5. Our Impact on the Ocean
6. Ocean Discoveries

## Dynamic Learning

- Videos
- Images
- Interactives
- Bold words with glossary
- Fun Facts! popups
- Did You Know? Rollovers with additional learning opportunities
- Clickable text that provides further information about the concept

## Course Components

- Online teacher guide
- Focus questions and learning objectives
- Unit assessments
- Offline inquiry-based activities and labs
- Problem-based learning opportunity in each unit
- Connections to real scientists
- Addresses Next Generation Science Standards (NGSS)
- Builds on student understanding
- Accessible to all learners
- User friendly, easy to navigate



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