

# HELLO

## Teachers

Educational Workshop Overview



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**Our SEA LIFE workshops  
provide a unique  
opportunity to honor,  
help protect, and  
conserve our world's  
shared ocean.**



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## Why a visit to SEA LIFE is important:

The problems facing our ocean today aren't going to be solved in one generation. This means to make real progress, we need to instill environmental stewardship of our ocean in our children.

- Give children a connection with the ocean – some children may never have seen one
- Bring the ocean to life and making it relatable – the creatures are real
- Concrete ways that children can make a difference, to protect the oceans for generations to come

## One-of-a-kind experience:

The underwater world of the ocean is an amazing and inspiring one, where incredible sea creatures and colorful habitats abound. SEA LIFE is where this world can come alive for children, as they dive into a world of amazing discovery.

## Our workshops have a cross-curricular approach, with particular focus on:

- Science (Adaption, Inheritance, Evolution and Variation, Biological Processes, Marine Wildlife, Welfare and Conservation)
- Geography (Oceans Around The World, Ocean Habitats, Human Impact on the Ocean)
- Literacy (Comprehension and Inference, Reading, Creative Writing Inspired by Wildlife)



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# Our Workshops



Preschool & Kindergarten



1<sup>st</sup> – 5<sup>th</sup> Grade



3<sup>rd</sup> – 5<sup>th</sup> Grade



6<sup>th</sup> – 8<sup>th</sup> Grade



9<sup>th</sup> – 12<sup>th</sup> Grade




# Supporting Pre & Post Lesson Plans

**What the ocean means to me**  
Pre-Visit Lesson Plan




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**Incredible Sea Creatures**  
Pre-Visit Lesson Plan



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**Layers of the Ocean**  
Pre-Visit Lesson Plan



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**Inheritance and Variation**  
Post-Visit Lesson Plan




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**Ocean Pollution**  
Post-Visit Lesson Plan



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**Sea Creature Creative Writing**  
Post-Visit Lesson Plan



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# Homes in the Sea

Workshop recommended for Preschool - Kindergarten

## Workshop Description

Visit creatures at home in the sea! Together we will dive into a world of amazing discovery to explore the fascinating and diverse habitats in our world's ocean, and the animals that call them home! Students will discuss what we as humans need to survive, and how animals and all living things have similar needs, then dive in to explore just what makes the perfect underwater home for some of the world's most amazing creatures.

## NGSS Curriculum Covered

- K-LS1-1 Life Science: From Molecules to Organisms: Structures and Processes. Use observations to describe patterns of what plants and animals (including humans) need to survive
- K-ESS3-1 Earth and Space Sciences: Earth and Human Activity. Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live

**Pre-visit Activity:** Introduction to Rockpools; suggested learning and coloring activity

**Post-visit Activity:** Build your own aquarium



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# Sea Creatures

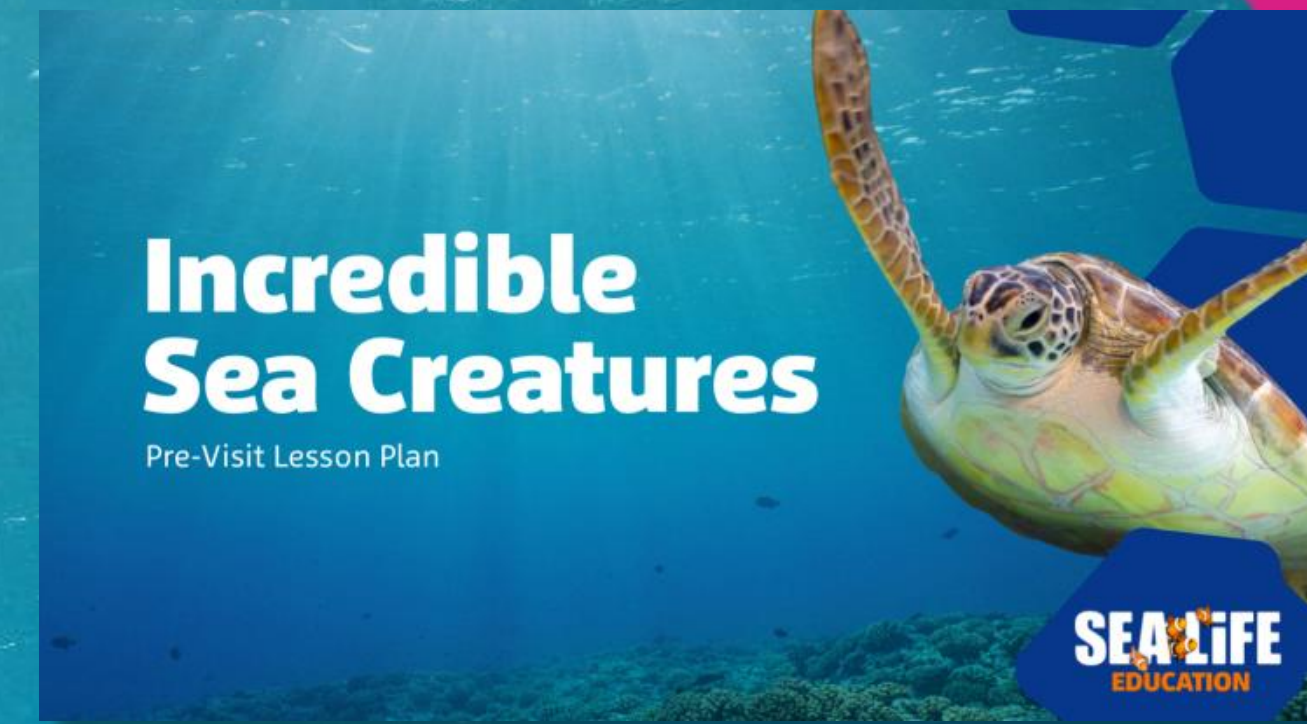
Workshop recommended for 1<sup>st</sup> – 5<sup>th</sup> grade

## Workshop Description

Invite students to learn about some of our core SEA LIFE creatures! Together they will dive into a world of amazing discovery to learn about three core creatures: sharks, jellyfish and seahorses – understanding their different needs and completing exclusive SEA LIFE quizzes for each. Students will think about the importance of animal welfare and use the core aquarium standards to create tanks for the different creatures, based on their understanding of creatures' needs and happiness markers.

## NGSS Curriculum Covered

- 1-LS1-1 Life Science: From Molecules to Organisms: Structures and Processes. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs
- 2-LS4-1 Life Science: Biological Evolution: Unity and Diversity. Make observations of plants and animals to compare the diversity of life in different habitats
- 4-LS1-1 Life Science: From Molecules to Organisms: Structures and Processes. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction
- 3-LS4-3 Life Science: Biological Evolution: Unity and Diversity. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all





# Sea Defenders

Workshop recommended for 3<sup>rd</sup> – 5<sup>th</sup> grade

## Workshop Description

Invite students to become Sea Defenders! They will investigate it is important to protect our oceans, raising awareness of their own relationships with the ocean and how their daily actions can positively or negatively affect the marine environment. Students should be inspired to make changes in their lifestyle and actively contribute towards solutions.

## NGSS Curriculum Covered

- 3-LS4-3 Biological Evolution: Unity and Diversity. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.
- 3-LS4-4 Biological Evolution: Unity and Diversity. Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.
- 4-ESS3-1 Earth and Human Activity. Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
- 5-ESS3-1 Earth and Human Activity. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.





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## NGSS Curriculum Covered

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# Habitat Explorers

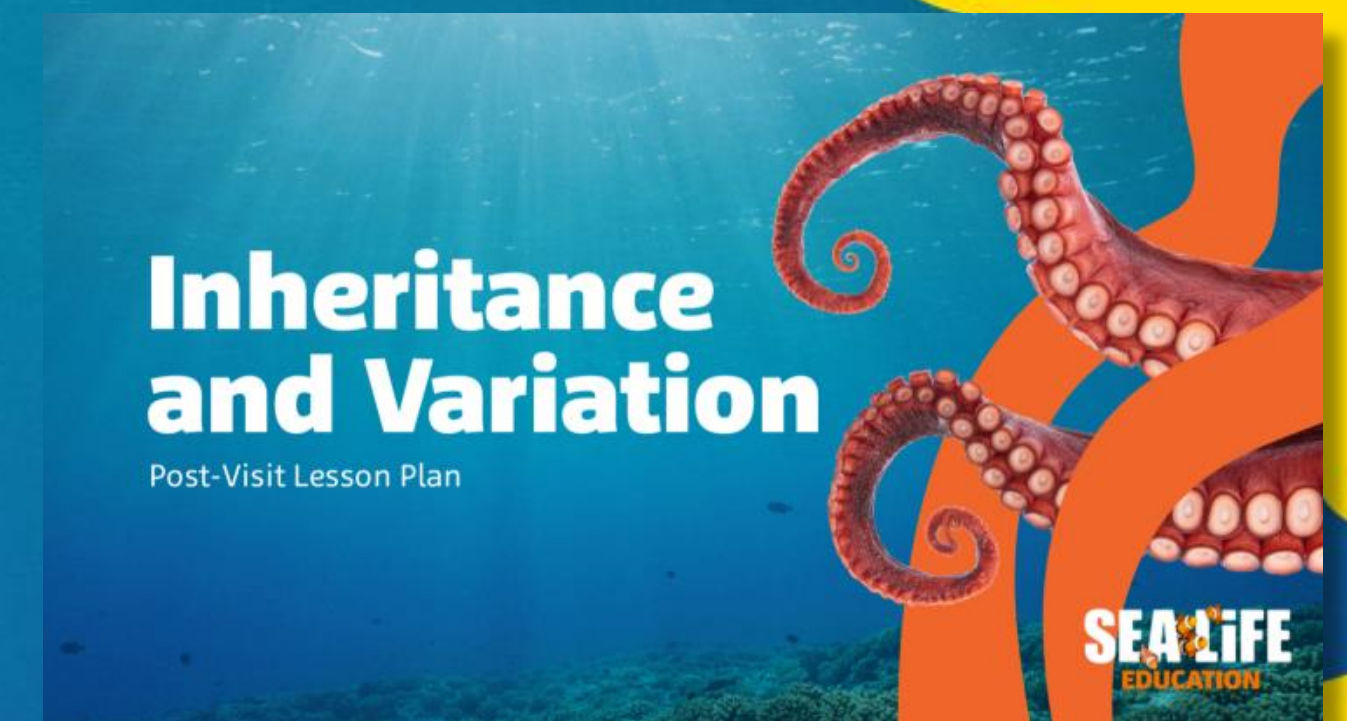
Workshop recommended for 6<sup>th</sup> – 8<sup>th</sup> grade

## Workshop Description

Invite students to become Habitat Explorers as they dive deep underwater into the ocean habitats of some of our SEA LIFE creatures! Together they will jump into a world of amazing discovery to learn about the different zones of the ocean and the creatures that live there. Thinking about habitats and adaptation, students will consider the challenges of different micro-habitats in the ocean, matching creatures and their adaptations to the different zones that they discover, and eventually creating their very own sea creatures!

## NGSS Curriculum Covered

- MS-LS1-5 From Molecules to Organisms: Structures and Processes. Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms
- MS-LS2-1 Ecosystems: Interactions, Energy, and Dynamics. Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem
- MS-LS2-4 Ecosystems: Interactions, Energy, and Dynamics. Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations
- MS-ESS3-3 Earth and Human Activity. Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment
- MS-ESS3-4 Earth and Human Activity. Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems



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# SEA LIFE Careers

Workshop recommended for 9<sup>th</sup> – 12<sup>th</sup> grade

## Workshop Description

Invite students to consider a career at SEA LIFE! They will explore the diverse range of job roles within SEA LIFE and the skills required for each of them, considering what it takes to become part of our incredible team and the types of challenges that employees face on a daily basis. Students will be encouraged to think about both their short-term and long-term goals for the future; they will be inspired to make the most of their skills in order to follow their dreams!

## NGSS Curriculum Covered

- HS-LS2-7 Ecosystems: Interactions, Energy, and Dynamics. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.

**Pre-visit Activity:** Thinking about careers activity

**Post-visit Activity:** Mock interview activity



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# Goodbye!

## We hope to see you soon.

For more information or to request  
a school field trip, contact [insert  
here] and visit us online at [insert  
website] SAVE & SEND AS PDF



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