



Biomimicry — Inventions Inspired by Nature

In this course, students explore how mimicking nature can lead to the development of amazing inventions. Students become engineers, get a close look at nature, and design their own biomimicry invention.

Grade: Middle School

Standards Supported

Next Generation Science Standards:

MS-ETS1-1. Engineering Design

Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

MS-ETS1-2. Engineering Design

Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

MS-ETS1-3. Engineering Design

Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

Ocean Literacy Principles:

Principle 5. The ocean supports a great diversity of life and ecosystems.

Diversity of Life B. The diversity of ocean ecosystems allows for many unique lifeforms with many unique adaptations.