



P.O. Box 787
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Jelly Bellies: Scientific Observation of Cassiopeia Jellyfish

MarineLab instructors will broadcast live from a preferred home of the Cassiopeia jellyfish – the MarineLab boat basin! Students will practice making scientific observations using live Cassiopeia while learning all about this jellyfish. We will conclude with “three truths and a lie” to help dispel myths of this oft-feared creature. Implications of society’s view on organisms such as jellyfish will be discussed.

Grade Level: 4-12

Timing: 45-60 minutes

STANDARDS SUPPORTED

Next Generation Science Standards:

Featured Science Practice → Constructing Explanations

Featured Cross Cutting Concept → Structure and Function

Disciplinary Core Ideas → LS1A Structure and Function

4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

MS-LS-1. Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.

HS-LS4-5.

Next Generation Sunshine State Standards:

SC.4.N.1.1 Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.

SC.4.N.1.2 Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.



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SC.4.N.1.6 Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.

SC.5.n.1.6 Recognize and explain the difference between personal opinion/interpretation and verified observation

SC.5.L.17.1 Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics

SC.912.L.17.20 Predict the impact of individuals on environmental systems and examine how human lifestyles affect sustainability.

SC.912.L.17.8 Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.

SC.912.N.1.6 Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.

Ocean Literacy Principles:

5d: Ocean biology provides many unique examples of life cycles, adaptations and important relationships among organisms (symbiosis, predator-prey dynamics, and energy transfer) that do not occur on land.