

MARINE BIOLOGY

Sonoma County 4-H

Name: _____ Date: _____

Guidelines for Project Proficiency Award
Intermediate:

Date Leader's
Completed Initials

HEAD:

1. Compare and contrast the life cycles of salmon and steelhead.
2. Define; benthic, current, trench, sea mount, swell, sea level, tsunami.
3. Identify and discuss the importance of the "holdfast" to the sea palm.
4. Identify and describe 2 marine mammals (other than the whale).
5. Explain the differences between marine mammals and fish.

HEART:

1. Attend a whale watching field trip.
2. Adopt a whale.
3. Define; ecosystem, niche, commensal, parasitic, symbiotic.
4. Understand the differences between phytoplankton and zooplankton, and give examples of each.
5. Discuss the importance of plankton, where it is the most abundant, and why it is important to the world's ecosystem.

HANDS:

1. Identify 3 seaweeds and discuss their importance to the ecosystem and to man.
2. Define "food chain", give 5 examples and be able to draw a diagram of one.
3. Cook and eat some fish or seaweed.
4. Explain predator and prey and discuss why both are necessary for a functioning ecosystem.

Project Leader's Signature of Completion: _____

Date: _____

Club Leader's Signature of Completion: _____

Date: _____

MARINE BIOLOGY

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Intermediate:

HEALTH:

1. Define and discuss the importance and necessity of biodiversity. _____
2. Explain the difference in the oxygen level in both warm and cold water, and discuss what effects this has on marine organisms. _____
3. Define buoyancy and explain the difference in buoyancy in warm and cold water. _____
4. Give a demonstration at County Presentation Day. _____

Leader's Signature of Completion: _____

Date: _____