

MARINE BIOLOGY

Sonoma County 4-H

Name: _____ Date: _____

Guidelines for Project Proficiency Award
Intermediate:

Date
Completed Leader's
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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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: _____