

# MARINE BIOLOGY

*Sonoma County 4-H*

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Guidelines for Project Proficiency Award

Advanced:

<u>Date</u>	<u>Leader's</u>
<u>Completed</u>	<u>Initials</u>

**HEAD:**

1. Describe the coloration found on many open ocean fish, and discuss why they have adapted to this coloration.
2. Identify eels, and describe their life cycle.
3. Describe how a sea anemone gets its food. Identify 2 common sea anemones.
4. Describe 3 methods organisms can use to protect themselves.

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**HEART:**

1. Discuss the relationship between the sea otter and man.
2. Describe two uses man has found for seaweed.
3. Visit an aquarium.
4. Describe the requirements necessary for a productive environment for open ocean dwellers.
5. Describe 3 mechanisms that deep water creatures use to survive.
6. Explain how and why aquariums are used to provide the public with information.

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**HANDS:**

1. Eat some seaweed.
2. Describe waves and how they move.
3. Make a collection of shells and identify them.
4. Identify the radula on some shells and discuss its importance and purpose.
5. Identify 3 types of coral and explain the importance of coral reefs to man.

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**HEALTH:**

1. List several safety rules used to lessen the danger of shark attack.
2. Identify 3 poisonous ocean organisms, describe characteristics and where they may be found.
3. Explore in depth one area of marine biology that especially interests you.
4. Give a demonstration at County Presentation Day.

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Project Leader's Signature of Completion: \_\_\_\_\_

Date: \_\_\_\_\_

Club Leader's Signature of Completion: \_\_\_\_\_

Date: \_\_\_\_\_