

# MARINE BIOLOGY

*Sonoma County 4-H*

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

Guidelines for Project Proficiency Award

Advanced:

Date  
Completed

Leader's  
Initials

**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. \_\_\_\_\_

**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. \_\_\_\_\_

**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. \_\_\_\_\_

**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. \_\_\_\_\_

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

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

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

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