MARINE BIOLOGY

Sonoma County 4-H

mam	e: Date:		
Guidelines for Project Proficiency Award <u>Beginner:</u>		<u>Date</u> <u>Completed</u>	<u>Leader's</u> <u>Initials</u>
HE	AD:		
1.	Identify 4 tidal zones and explain differences of each.		
	(Characteristics).		
2.	Define indicator species of identify two for each tidal zone.		
3.	Identify/discuss these terms: high tide, spring tide, low tide, neap		
	tide, continental shelf, continental slope.		
4.	Explain/diagram tides and the cause of them.		
5.	Understand the differences between these habitats; rocky, sandy		
	piling and estuary.		
HE	ART:		
1.	Attend a low tide field trip.		
2.	Understand and discuss grey whale migration.		
3.	Identify and give 2 characteristics of 3 other species of whales.		
4.	Explain and give examples of why oceans are important to man.		
HA	ANDS:		
1.	Discuss how organisms have adapted to survive repeated exposure to)	
	the air and sun.		
2.	In a tidal pool, locate and identify 5 common inhabitants.		
3.	Understand causes and explain the differences in salinity of tidal		
	pools, open ocean, estuary.		
4.	Be able to read and understand a tide table book.		
HE	ALTH:		
1.	Identify "red tide", discuss what causes it, and explain its effects on		
	man.		
2.	Discuss how oceans can become polluted, give 2 examples, and		
	explain how ocean pollution affects all life.		
3.	Define "feeding frenzy".		
4.	Give a demonstration at County Presentation Day.		
F	Project Leader's Signature of Completion:	Date	:
(Club Leader's Signature of Completion:	Date	: