

Name _____
Class/Lab _____

Kayak Field Trip Project



Introduction

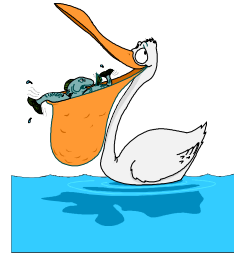
We will observe marine mammals, birds, and other aquatic life. This worksheet is designed to help you understand how living organisms survive in ocean environments by using different adaptations. You will find answers to the questions throughout the day by listening to your guide, your biology instructor and your classmates. Please remember, if you work in groups, **USE YOUR OWN WORDS!** If you have any questions, concerns, problems or just don't understand the question please ask Dr. Joe for help. Have fun.

Kelp Beds

1. How far from shore do you find kelp? Why?
2. How quickly does kelp grow per day?
3. Why do otters roll themselves in kelp?
4. What do otters eat and how do they use rocks to feed?
5. Why do female otters have red noses?

Birds

6. What is DDT and how did it affect the Brown Pelican.



7. Humans are afraid of double chins. Why do pelicans have a huge chin?

8. Note the red spot on the beak of the sea gull. How does the red spot allow for the survival of baby sea gulls?

Pinnipeds

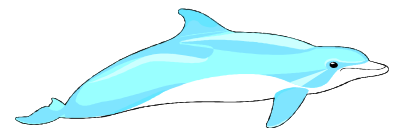
9. What is/are the difference(s) between a seal and a sea lion?



10. What are some adaptations that allow pinnipeds to live in a marine environment?

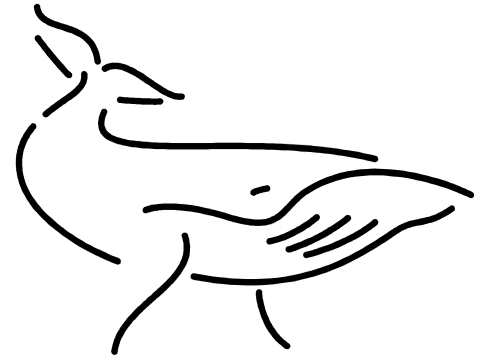
Whales, Dolphins & Porpoises

11. Explain echolocation.



12. How are fish and marine mammals different with regards to:

- a) Body temperature
- b) Tail fin vs. fluke movement
- c) Respiration
- d) Feeding their young



13. What are plankton and krill and why are they so important to the ocean ecosystem?

14. Describe the migratory patterns common whales found off the coast of California.

Community Interactions

15. Draw a food web of all the organisms we seen or heard of today.

16. What was the neatest thing you learned today?