**ROCKY INTERTIDAL FIELD TRIP: 60 POINTS**

I. **Title Page**

 A. Title

 B. Name, date, and location of field trip

II. **Introduction** - See your lecture textbook (Ch. 11) to complete the following:

 A. Discuss the following using complete sentences in paragraph format:

 1. Definition of the intertidal zone (2 pts)

 2. State four problems (hardships) that rocky intertidal organisms have to deal with while living in this harsh environment. (4 pts)

III. **Photographs**

A. **Intertidal Communities**: Take a view point photo of the intertidal communities at Corona Del Mar State Beach Label the following on the photograph: (4 pts)

 1. Rocky Intertidal Community

 2. Sandy (Soft-Bottom) Intertidal Community

B. **Zonation of the Rocky Intertidal:** Takephotos showing each of the three zones (upper, middle and lower) of the rocky intertidal (three photos total). Also, include the following information for each zone.

1. Upper Intertidal Zone

 a. Photo (2 pts)

 b. The amount of time this zone is exposed (not underwater) relative to the other zones. (1 pt)

 c. The main problems that organisms living in this zone would have to deal with. (2 pts)

 2. Middle Intertidal Zone

 a. Photo (2 pts)

 b. The amount of time this zone is exposed (not underwater) relative to the other zones. (1 pt)

 c. The main problems that organisms living in this zone would have to deal with. (2 pts)

 3. Lower Intertidal Zone

 a. Photo (2 pts)

 b. The amount of time this zone is exposed (not underwater) relative to the other zones. (1 pt)

 c. The main problems that organisms living in this zone would have to deal with. (2 pts)

C. **Rocky Intertidal Organisms:** Take photos of common organisms that are found within each zone. Also, include the following information for each organism.

 1. Upper Intertidal Organisms **(two different organisms)**

 a. A photo of each organism. (4 pts)

 b. Classify each organism by stating its common name and the level(s) that your organism falls under **that you learned in lab** (i.e. Kingdom, Phylum, Subphylum, Class, etc.). (2 pts)

 c. Describe **two** specific adaptations (i.e. body structures or activities) that each organism has or performs in order to survive the problems that they deal with while living in this zone. (4 pts)

1. Middle Intertidal Organisms **(three different organisms, one of them must be an alga or flowering plant)**

 a. A photo of each organism. (6 pts)

 b. Classify each organism by stating its common name and the level(s) that your organism falls under **that you learned in lab** (i.e. Kingdom, Phylum, Subphylum, Class, etc.). (3 pts)

 c. Describe **two** specific adaptations (i.e. body structures or activities) that each organism has or performs in order to survive the problems that they deal with while living in this zone. (6 pts)

1. Lower Intertidal Organisms **(two different organisms, one of them must be an alga or flowering plant)**

a. A photo of each organism. (4 pts)

 b. Classify each organism by stating its common name and the level(s) that your organism falls under **that you learned in lab** (i.e. Kingdom, Phylum, Subphylum, Class, etc.). (2 pts)

 c. Describe **two** specific adaptations (i.e. body structures or activities) that each organism has or performs in order to survive the problems that they deal with while living in this zone. (4 pts)

IV. Your work must be typed, neat, and well organized. If it is not you may lose 5 to 10 points related to the degree of disorder.