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| **Procedure**  1) Research intertidal communities and the plants and animals that live in them.  2) Find a fresh water creek that flows into the ocean creating an estuary.  3) Choose four sites along the creek about 30 meters apart.  4) Test the water salinity at these test sites. Test the salinity of the ocean and as far up the creek as possible.  5) Make observations at each test site about the water depth, flow rate, and the type of surroundings.  6) Make a 1 meter by 1 meter wooden square to place in the creek.  7) At each site lay down the square and count the number and type of organisms present. Repeat many times in each area.  8) Document what types of organisms are present through photos or drawings.  9) Use a book to identify the different organisms.  10) Analyze the data collected and see if your hypothesis is refuted or supported by the data.  11) Write a conclusion about the observations and the data and complete the written part of the project.  **Materials Used in Project**  **Chest Waders-** Rubber fishing/hunting gear that covers the body up to mid chest level. Provides waterproof protection. Allowed us to get deep into the water and count organisms and take water tests.  **Salinity Test Kit-** Kit furnished by Mr. Theil. Measures the amount of salt in the water in parts per thousand. A sealed glass tube with a certain density is dropped into a cylinder of the water being tested. The density of the sealed tube is calibrated to fresh water, so pure water will get a reading of 0.  **Cameras (digital and film)-** Used to take pictures of the test sites and the organisms observed.  **Books-** Guides to Northern California's coastal animals and plants. Used to classify the species of organisms we observed.  **Zip Lock Bags-** Used to hold organisms we found so we could classify them.  **Tape Measure-** Used to measure the distances of our site.  **One Meter by One Meter Wooden Square-** Constructed out of wood, we used this to measure out a certain area that we would count organisms in.  **Nets-** Used to capture aquatic organisms.  [[Home](http://docs.google.com/home.html)][[Introduction](http://docs.google.com/introduction.html)][[Hypothesis](http://docs.google.com/hypothesis.html)][[Procedure](http://docs.google.com/procedure.html)][[Data](http://docs.google.com/data.html)][[Conclusions](http://docs.google.com/conclusions.html)][[Bilio/Links](http://docs.google.com/biblio.html)]  [[2001 Projects](http://docs.google.com/index.html)][[2000 Projects](http://docs.google.com/AP2000/index.html)][[1999 Projects](http://docs.google.com/AP99/index.html)][[1998 Projects](http://docs.google.com/AP98/index.html)] |