

Biology 62S

Field Trip to Regional Botanical Garden

4/1/18

Name:

Welcome to the East Bay Regional Parks' Regional Botanical Garden! The garden is a wonderful living museum of plant biodiversity in California, organized by different floristic regions or provinces. We will spend most of our time in the Channel Island section, but will also have a chance to tour some of the other areas for comparison (and just for fun!). In the first part of the trip, we'll have a lecture on island plants; we'll then go into the garden to see these plants, and finally will get a tour of the garden.

Part 1: Island Plants Lecture

Use the space provided here to take notes:

## Part Two: The Channel Island section

There are several island oak taxa planted in the garden, including Macdonald's oak, island scrub oak, island oak, and Santa Cruz Island oak. How do these taxa differ from each other? Use illustrations as well as words to show the differences.

There has been some controversy over the taxonomic position of Santa Cruz Island oak, *Quercus parvula* var. *parvula*. Some have suggested it is just a variety of interior live oak. If you wanted to see if the two oaks were distinct ecologically, how might you test this?

There are several island manzanita taxa in the garden as well. Choose two to compare, and use illustrations and words to show how these taxa differ from each other.

What about manzanitas makes them particularly good island colonists?

Find Island Bush Monkeyflower, *Mimulus aurantiacus* var. *parviflorus*. Touch the leaves—are they sticky? What color are the flowers?

Find island ironwood, and sketch the leaves in the space below. What is a hypothesis for why the leaves have evolved to be fernlike?

Of all the plants you've seen today, what are your favorites, and why?

What are you most looking forward to seeing plant-wise on Santa Cruz Island?