**ESCI 1 lab Assignment Summary**

**species list**

**Lab 1 - Kirsch Center**

Basic needs questions answered

definitions:

population, ecosystem, biodiversity, species, species richness, biological hotspot, habitat, habitat fragmentation, Genetic diversity, population bottleneck, Wildlife corridor, Biological Hotspot

California Map

Biodiversity of California Questions

**Lab 2 - Kirsch Center**

definitions:

niche, community, dominant species habitat, limiting factors, endemic, rain shadow effect, orientation, biotic and abiotic elements, and adaptation, wildlife corridors

Bay Area Map - added points

Plant community concept map

ESA plant species treasure map

tree key practice - (one tree of your choice)

**Lab 3- Henry Cowell State Park**

Henry Cowell species list and description

(2) article summary

Tree key exercise (2)

Redwood forest treasure hunt/questions

**Lab 4 - McClellan Ranch Park**

definitions:

resource partitioning, watershed, invasive species and biomagnification

Article summary (1)

notes on riparian ecosystem and restoration project

**Lab 5 - Ulistac Natural Preserve**

Google search summary on Muwekma Tribe

plant list of Ulistac

Article summaries (2)

**Lab 6 - McClellan Ranch Park**

definitions:

eutrophication, point source and nonpoint source pollution (what is the difference) , nutrient cycling, dissolved oxygen and turbidity

article summaries (2)

water quality data form

Notes of water quality testing and steelhead management

**Lab 7 -Kirsch Center Climate Change and soils**

Definitions:

symbiotic relationship, green house gases, carbon sequestration, atmosphere, stratosphere, anaerobic microorganisms,

Article Summaries (2)

lecture notes on carbon sequestration and soil

**Lab 8 - Alviso National Wildlife Refuge**

Definitions:

estuary, wetland, salt pond, brackish water and slough

Article Summary (1)

**Lab 9 - Coyote Valley**

Definitions:

genetic diversity, wildlife corridor, culvert, habitat fragmentation, spoor

Article Summary (2)

summary write up- 1 page