Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Before Native Garden Planting: Day 1**

What do you think biodiversity is?

Why might biodiversity be important for humans?

What do healthy ecosystems provide to humans?

What could happen if a species is removed from a community?

**Site Visit 1:**

Sit in silence for 10 minutes and observe the site. Record your observations and thoughts about the site.

Write down 2 questions you could ask about the diversity of this site.

Group member’s names:

Class period:

What do scientists measure when they are trying to understand biodiversity? Here are some examples:

* Number of species.
* Number of different “jobs” the species have.
* The biomass of a community (how productive it is), or of a single species.
* Where species occur.

Your job is to assess the biodiversity of the site at Watsonville High School. Your teacher has demonstrated some of the tools that scientist use to measure biodiversity. In groups of 3-4, decide on what type of biodiversity you want to measure. Write your procedure below:

My group is going to measure\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(What kind of diversity)?

How are you going to measure that?

2.

3.

4.

Data Table: Label your rows and columns

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**After Native Garden Planting: Day 2**

List your group member’s names:

Rewrite your methods. These should match exactly what you did during the first assessment.

What are you measuring?

Methods:

1.

2.

3,

4.

5.

6.

Data Table: Label your rows and columns

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Sketch a graph of your expected results:



**Site Visit 2:**

Sit in silence for 10 minutes and observe the site. Record your observations and thoughts about the site. (Students will have their first assignment returned to them to re-assess and remember their methods.)

**Day 5: Data Interpretation and Conclusions**

Group member’s names:

Use the graphs that summarize the results from your pre and post garden diversity assessment to answer the following questions:

1. Where was biodiversity the greatest? Was this true for all measures of diversity?
2. Using the data from pre- and post-restoration, make an argument for which condition is likely to provide greater ecosystem services.
3. What site do you think is more resilient to change and why?
4. Are there elements of the site that you didn’t measure but feel are important to consider?
5. Which “ecosystem” do you like better and why?
6. Were your methods successful? What are potential problems with your data collection method?