

# Ecology Garden Project Descriptor

Website: <http://zanniedallara.weebly.com/eco-butterfly-garden.html>

## **Benchmark#1:** To Scale Drawing of the Garden

**Due: Thursday 5/1**

- Measure the garden
- Block out sections for a path and out door art additions
- Split the space into sections for each team (see teacher)
- Draw your sections of the garden carefully on **graph paper**
- Make a key that indicates the scale of the drawing
- Mark any important features in the garden
- Journal Entry #1**

## **Benchmark#2:** Plant Research

**Due:** \_\_\_\_\_

### **Plant#1**

<b>Basic Info</b>		<b>Requirements</b>	
<b>Name</b>		<b>Structure/Needs</b>	<b>Grouping</b>
<input type="checkbox"/> Common:		<i>Example:</i> <input type="checkbox"/> If it climbs it needs to be near a fence If its tall, it needs to be in the back	<b>Space Requirement</b>
<input type="checkbox"/> Scientific			
<b>Shape</b>		<b>Soil</b>	
Ground Cover Shrub Tree Vine		Drainage, nutrients needed, soil type (tight, loose)	
<b>Habitat:</b>			
<b>Where it Evolved</b>			
<b>Deer Resistant?</b>	Sketch it:		<b>Level of Light</b>
Yes No			Low Med High
<b>Drought Resistant?</b>			<b>Water Requirements</b>
Yes No			Prefer: AM or PM
Notes:			
<b><u>Contribution to the Garden</u></b>			
(Attracts pollinators (what kind), adds nutrients to soil, shades other plants)			

**Benchmark#3:** Butterfly Requirements**Due:** \_\_\_\_\_

- Life Cycle
- Incorporate artistic and/or educational element about the butterfly life cycle into the garden
- Requirements at each stage of the life cycle
- Plot their journey/migration
- Research into the life history of the Monarch butterfly
- Journal Entry #2: Life cycle, life history, migration**

**Benchmark#4:** Plant Placement**Due:** \_\_\_\_\_

Use the Info from benchmark#3 to place the plants.

- Make copies of your To Scale Drawing
- Cut out colored paper to represent their maximum size
- Make a key so it is clear which is which plant
- Place them on the scale drawing
- Get approval from teacher
- Journal Entry #3: What plants where and why**
- Present to the class

**Benchmark#5:** Observations**Due:** \_\_\_\_\_

- Complete 8 observations
  - Include a tally of the # of caterpillars in different size categories
  - Observations about size, number, activity level, plant quality
- Journal Entry #4: Include trends in observations, lengths of time to complete development, what you noticed about how quickly they grew, how much they ate, if any got sick and died, about the plant milkweed.**

**Benchmark#6:** Point Split and final project**Due:** \_\_\_\_\_

- Separate points for each team member, individually submit to Zannie
- Submit final project:**
  - In a project folder with a
    1. Title page
    2. Table of contents
    3. Section dividers for each benchmark
  - Include **Rough drafts**
  - Include **Journal Entries** from each of the previous benchmarks. Edit them from comments made during submission at each benchmark step. Include rough drafts with teacher's comments as well as final drafts.