# **FFL Principle 1- Right Plant, Right Place** UF CPETUF CPET

# **Landscape Rescue Student Worksheet**

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

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_

**Part 1: Site Analysis**

| **Light Availability** |  |
| --- | --- |
| **USDA Hardiness Zone** |  |
| **Description of Site Conditions** |  |

**Part 2: Soil Analysis Procedures**

**A. Determining Soil pH (Using Vinegar and Baking Soda)**

Procedure (adapted from UF/IFAS Extension and Home Soil Testing methods)

1. Place 2 teaspoons of soil into two separate containers.
2. Add distilled water to both containers until the soil is muddy.
3. To the first container, add 1–2 teaspoons of vinegar and observe for fizzing- FIZZING INDICATES ALKALINE SOIL.
4. To the second container, add 1–2 teaspoons of baking soda and observe for fizzing- FIZZING INDICATES ACIDIC SOIL.
5. If neither reacts, the soil is likely neutral.

**Observations:**

| **Alkaline Soil Test (positive or negative)** |  |
| --- | --- |
| **Acidic Soil Test (positive or negative)** |  |
| **Conclusion on soil pH** |  |

**B. Determining Soil Texture (Sedimentation Test)**

Procedure (adapted from USDA NRCS and Gardening Know How sources):

1. Fill a transparent bottle about 1/3 with dry soil.
2. Add water until the jar is nearly full.
3. Add a few drops of dish soap.
4. Shake the bottle vigorously for 1–2 minutes.
5. Set the jar on a flat surface and let it sit undisturbed for 24 hours.
6. Observe the layers:

*- Sand settles first (bottom layer)*

*- Silt settles next (middle layer)*

*- Clay remains suspended longest (top layer)*

1. Measure the height of each layer to estimate percentages.

**Observations:**

| **Total Height of sediment layer (cm)** |  |
| --- | --- |
| **Sand Layer** | *Height (cm): \_\_\_\_\_\_*  *Percentage of total: \_\_\_\_\_\_* |
| **Silt Layer** | *Height (cm): \_\_\_\_\_\_*  *Percentage of total: \_\_\_\_\_\_* |
| **Clay layer** | *Height (cm): \_\_\_\_\_\_*  *Percentage of total: \_\_\_\_\_\_* |

**Soil Texture Classification Guide**

*Use the percentages from your soil test to determine your soil type:*

|  | ***Sand*** | ***Sandy Loam*** | ***Loam*** | ***Silt Loam*** | ***Clay Loam*** | ***Clay*** |
| --- | --- | --- | --- | --- | --- | --- |
| Percentage of sand | 85-100 | 70-85 | 40-60 | 0-20 | 20-45 | 0-45 |
| Percentage of silt | 0-10 | 0-20 | 30-50 | 60-90 | 15-40 | 0-40 |
| Percentage of Clay | 0-10 | 0-20 | 10-20 | 0-20 | 27-40 | 40-100 |

**Classification of your soil: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part 3: Florida-Friendly Plant Recommendations**

List and describe six Florida-friendly plant species suitable for this sight based on your soil and light analysis.

| **Common Name** | **Scientific Name** | **Features** | **Justification** |
| --- | --- | --- | --- |
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