Waimea Falls Audubon Center Worksheet

Find the plants shown below. Answer the questions by observing the plants and reading the signs. **Hint:** Scientific names are in center: 1st word = **genus** 2nd word = **species**

**Also:** the country where the plant comes from is in the lower left corner. The plant family name is in the lower right corner. **What do you think the number at top on the left is?**

Find this plant at the park entrance just past the ticket booth.

**Common Name:** ____________________
Is it a monocot or a dicot? (Circle correct answer) How do you know?___________________________

Find this tree and please list the following:

- **Common Name:** ______________________
- **Genus:** _____________________________
- **Species:** ____________________________
- **Family:** ____________________________
- **Native to:** __________________________

Name two ways people use this tree:
1. __________________________________
2. __________________________________

Suppose this tree had 60 scars. About how old would it be? ______________
How do you know?

Find this plant and please list the following:

- **Common Name:** ______________________
- **Genus:** _____________________________
- **Species:** ____________________________
- **Native to:** __________________________

What about the flower tells you?

Is it a monocot or a dicot? (Circle correct answer)
Now, walk through the white wooden rails (over the “speed bump”), pass a giant mango tree on your right and find these plants:

Find this plant and please list the following:

English Common Name: __________________
Hawaiian Common Name: ________________

What important food is made from this plant? ________________________________

Common Name: ______________________

How much do these fruits weigh?
____________________________________

Where is this tree native?
____________________________________

What pollinates this tree in Hawaii?
____________________________________

What does herbaceous mean?
____________________________________

Are trees herbaceous? ________________
Spend a few minutes walking around the pond in Area 4a. See if you can find these birds.

English Common Name: _________________
Hawaiian Common Name: _________________

According to legends, what gift did this bird give to the early Hawaiians? ________________

These large birds are called peafowl. The males are peacocks and the females are peahens. Look around and try to find a few, then answer this question:

How are the males different from the females?

Near Hale Kokua, find the Ku'ula shrine. Draw a picture of the shrine in the box on the left.

Who is Ku'ula? ________________

What does the large stone on the top of the platform represent? ________________
Walk around for a few minutes on your own. Find two plants that you like, and fill out the table below (some information may not be available). Choose one of these plants for your research project.

<table>
<thead>
<tr>
<th>Draw a picture of each plant</th>
<th>Plant #1</th>
<th>Plant #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Where Native?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uses (food, medicine, etc)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dicot or Monocot?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Waimea Falls Audubon Center Worksheet**

**Teacher’s Answer Key**

**Page 1, top:** *What do you think the number at top on the left is?* This is the botanist’s accession number which they use to track plant successes/failures and propagation techniques. The number on the display board shown is 75P536. This means this plant (P, as opposed to S for seed) was propagated in 1975, and was number 536 received from a certain source or donor. The full information of this plant can be found in the botanist’s files located on site at Waimea. These files are regularly accessed by botanists wanting detailed information on planting methods, pest control, cuttings, etc.

**Common Name:** Red Ti

Is it a monocot or a dicot? *(Circle correct answer)*

How do you know? **MONOCOT because leaves have parallel veins**

**Common Name:** Coconut Tree

**Genus:** Cocos

**Species:** Nucifera

**Family:** Arecaceae (Palmae)

**Native to:** West Pacific

Name two ways people use this tree:

1. Coconut used for Food or Drink
2. Wood & woven fronts used for shelter
3. Fibers within husk are braided for cordage
4. Oil is extracted from the dried kernel or copra

Suppose this tree had 60 scars. About how old would it be? **Approx. 5 years**

How do you know? Each scar forms when a frond drops, which happens about once every month (or 12 every year).

**Common Name:** Pinwheel Jasmine

**Genus:** Ervatamia

**Species:** Tabernaemontana pandacaqui (was E orientalis)

**Native to:** Fiji to Malaya

Is it a monocot or a dicot? *(Circle correct answer)*

What about the flower tells you? **DICOT because flower has 5 petals** *(generally, 3 or 6 petals indicates monocot; dicots have 4 or 5 petals)*
Page 2

English Common Name: Taro
Hawaiian Common Name: Kalo
What important food is made from this plant? Poi (or laulau)

Common Name: Cannonball tree
How much do these fruits weigh? Up to 10 pounds
Where is this tree native? South America (e.g., Amazon)
What pollinates this tree in Hawai‘i? Honeybees

What does herbaceous mean? Non-woody
Are trees herbaceous? No (they contain wood)

Page 3

English Common Name: Moorhen or Gallinule
Hawaiian Common Name: ‘alae ‘ula
According to legends, what gift did this bird give to the early Hawaiians? Fire

These large birds are called peafowl. The males are peacocks and the females are peahens. Look around and try to find a few, then answer this question:
How are the males different from the females? Males have brighter feathers, and bushier tails.

Near Hale Kokua, find the Ku‘ula shrine. Draw a picture of the shrine in the box on the left.
Who is Ku‘ula? Fish god
What does the large stone on the top of the platform represent? Embodies one of the spirits/deities related to fishing.

Page 4 - answers will vary.