

'Ewa 'Āina Education Initiative

Unit Plan: Native/Non-Native Plants & Animals of Hawai'i (Link to Unit Plan: <https://cutt.ly/iH7kzrS>)

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'Ewa 'Āina Site: Hoakalei Cultural Foundation

Detailed Lesson-Project Plan #2

Lesson Title: Huaka'i- Plant identification (Scavenger Hunt)

Essential Unit Questions Addressed

- How has the journey of plants impacted Hawai'i?

Educational Standards

Hawai'i Core Standards for Social Studies

Grade: 4th Grade

Subject: Social Studies

Theme 3: Early Hawaiians and the Land

Anchor Standard 15: Human Populations: Spatial Patterns and Movements (Geography)

Content Standard: SS.4.3.15.2- Differentiate between native and non-native plants and animals used by early Hawaiians

HĀ framework and/or Hawaiian Culture integrated into this lesson

Strengthened Sense of Belonging:

- Know about the place I live and go to school
- Build relationships with many diverse people
- Am open to new ideas and different ways of doing things

Strengthened Sense of Responsibility

- Question ideas and listens generously
- Ask for help and feedback when appropriate

Strengthened Sense of Hawai'i:

- Learn the names, stories, special characteristics and the importance of places in Hawai'i

Materials Needed:

Videos, Media, Lesson Presentations/Resources

- Planning a huaka'i to Hoakalei Cultural Foundation
<https://drive.google.com/file/d/1dnMpGlnqeZkZDZcM5VSHENiM7PRtKIWQ/view?usp=sharing>
- General 'Āina Site Visit Logistics and Pre-Planning Guide
<https://drive.google.com/file/d/1N3qr9h-Ge9Axn5Mg9-KXIEYNN43QCyBs/view?usp=sharing>
- [Hoakalei Cultural Foundation Kauhale Preserve Website](http://hoakaleifoundation.org/kauhale-preserve) (Link: <http://hoakaleifoundation.org/kauhale-preserve>)

Student Assessments and Worksheets

- [Huaka'i- Plant identification \(Scavenger Hunt\)](https://cutt.ly/GH7hpX1) (Link: <https://cutt.ly/GH7hpX1>)

****The use of an iPad will be needed for this lesson to use the digital copy. If iPads are not accessible, print the activity for a hardcopy**

Supplies

- Kauhale Preserve provides students with picture cards of plants and animals found on sight. These picture cards will help students identify the plants as well. In addition, at Kauhale the plants are also labeled.



Pedagogy (methods) Used

Lesson Introduction

Use the following documents to help you schedule a huaka'i to Hoakalei Cultural Foundation:

- Planning a huaka'i to Hoakalei Cultural Foundation
<https://drive.google.com/file/d/1dnMpGlnqeZkZDZcM5VSHENiM7PRtKIWQ/view?usp=sharing>
- General 'Āina Site Visit Logistics and Pre-Planning Guide
<https://drive.google.com/file/d/1N3qr9h-Ge9Axn5Mg9-KXIEYNN43QCyBs/view?usp=sharing>

Kauhale Preserve Introduction

- [Hoakalei Cultural Foundation Kauhale Preserve Website](http://hoakaleifoundation.org/kauhale-preserve) (Link: <http://hoakaleifoundation.org/kauhale-preserve>)
- Have students listen to the English narrations about the preserve as well as mo'olelo {stories} told of Kupuna Eatons growing up in the area.
 - You can also play the Hawaiian narrations for students so they can hear some of the Hawaiian language.

Instructional Sequence

Teacher Does	Students Do
Prior to visiting Kauhale for a huaka'i, the teacher will preview the slides and expectations for the Huaka'i- Plant identification (Scavenger Hunt) (Link: https://cutt.ly/GH7hpX1 ; digital or hard copy) **Lesson has been designed to be used on an iPad. Modifications (printed) can be made as needed.	Students will ask any questions they may have about the task while they are on the huaka'i. Disclaimer: Some plants might change location on the path as nature runs its own course.
Upon arriving at Kauhale, the teacher will pass out picture cards provided by Kauhale. Teachers may choose to partner up or create small groups of students for the task. (*Ask Kauhale staff what is best for them)	Students will listen attentively to the presenters at Kauhale. Listening for information they can use to add to their scavenger hunt activities.
Teachers assist Kauhale staff and students as they tour the trail at Kauhale looking at all the plants.	Students will: <ul style="list-style-type: none"> • Slide 1- Dragging pictures of the native

	<p>plants to where they are located on the Kauhale trail</p> <ul style="list-style-type: none"> ● Slide 2- As the plants are located on the trail, students are to listen to the Kauhale staff as they talk about the uses of each plant. The uses will be noted on slide 2.
<p>At the end of the trail tour, the teacher will draw the student's attention to slides 3-4 (Native Plant Research)</p>	<p>Students will:</p> <ul style="list-style-type: none"> ● Slide 3-Choose a plant found on the trail and take a photo of the plant ● Slide 4- Write notes about the plant <ul style="list-style-type: none"> ○ Asking Kauhale staff any further questions.

Closure

1. After lunch/upon arrival back at school (or the next day), have students complete the Post Huaka'i Evaluation (slides 5-6). Students will reflect on their learning from the field trip.
2. Field Trip Narrative Writing- Why is Kauhale Preserve (and places like it) so important to preserve & maintain?

Accommodations for at least 3 types of diverse learners

- **Modified Huaka'i- Plant identification (Scavenger Hunt)** Link: https://drive.google.com/file/d/1GJfanay_2bfk5bPaaxZWZ6EGTZDRZBq8/view?usp=sharing (Can be used for SPED students. Less plants to locate and simplified plant uses)
- **Modified Post Huaka'i Evaluation** Link: : <https://drive.google.com/file/d/1Z-Mw6MsGQsc8hVRHiIWt2GvyhCwJnCl3/view?usp=sharing> (Can be used for SPED students. Simplified Post Huaka'i Evaluation questions)
- Teacher to provide frequent checks for understanding and additional coaching as needed.

**Hardcopy of Huaka'i- Plant Identification (Scavenger Hunt) is provided if students don't have access to iPads to bring on the huaka'i.

Suggested Formative Assessment Method/s For This Lesson

- Part 1: Post Huaka'i Evaluation (slides 5-6)
 - How did the native Hawaiian plants we saw today get to Hawai'i?
 - What was the most interesting thing you learned today?
 - What did you like best about the field trip today?
 - If you could improve today's field trip, how would you make it better?
- Part 2: Native Plant Research (See lesson 3 below)
- Optional Assessment- As a closing activity/continued learning, the teacher can obtain a native plant as a classroom plant/project. Students will be responsible for the malama and growing of the plant. If Kauhale Preserve is unable to provide a small plant, you may also reach out to Mālama Learning Center for help. A classroom garden could be started in a few short years!

Explain How This Lesson Relates To the Unit Summative Assessment

This huaka'i will give students the first hand experience at seeing and learning about various native Hawaiian plants. Students will see the plants in their natural habitat. Learn about the uses of the plant from expert educators at Kauhale. Students will take back this vital information and complete a researched informational writing piece about a plant of their choice.