

‘Ewa ‘Āina Education Initiative

Unit Plan: Native/Non-Native Plants & Animals of Hawai‘i

Created by: Kelli Kaanaana

‘Ewa ‘Āina Site: Hoakalei Cultural Foundation- Kauhale Preserve

Hawaiian Culture-Based Lens	Cross-Cutting Content	Instructional Design
<ul style="list-style-type: none">Mālama ‘Āina: Land stewardship focusing on sustainability and a familiar connection <i>Kamehameha Schools Research and Evaluation Division</i>	<ul style="list-style-type: none">‘Ōlelo Hawai‘iGeographyWatershedsHuman Interaction/Impacts	<ul style="list-style-type: none">Scientific InquiryHistorical InquiryStewardship - SustainabilityOral Presentation

Essential Question/s (3 max) that unit will address

For help and information on the creation of essential questions directly from Jay McTighe and Grant Wiggins click on the following URL

<https://cutt.ly/cfRqzXy>

- Why are native plants so special to Hawai‘i?
- How has the journey of plants impacted Hawai‘i?
- What makes a plant special to Hawai‘i?

Unit Plan Descriptive Title: Native/Non-Native Plants & Animals of Hawai‘i

Target Grade: 4th Grade

Target Subject: Social Studies

‘Ewa ‘Āina Site: Hoakalei Cultural Foundation

Background Information

Detailed ‘Āina Site Information available at the following URL:

- “[Hoakalei Cultural Foundation Site Background](https://cutt.ly/1HC8cnG)” (link: <https://cutt.ly/1HC8cnG>)

A direct link to Halau o Pu‘uloa: Ewa ‘Āina Inventory is available via the following URL:

- https://www.ksbe.edu/assets/site/special_section/regions/ewa/Halau_o_Puuloa_Honouliuli.pdf

Native Hawaiian Plants

- <http://nativeplants.hawaii.edu/> - Native Plants Hawai‘i website is a comprehensive and searchable knowledge base that seeks to promote the understanding and use of native Hawaiian plants
- <https://www.fossweb.com/video?videoID=G4351195> - “Strangers in Paradise” video by National Geographic

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-Ge9Axx5Mg9-KXIEYNN43QCyBs/view?usp=sharing>

Sequential Unit Plan Lesson Outline

Native/Non-Native Plants & Animals	Time Estimate in Hours
Native & Non-Native Plants & Animals Introduction <ul style="list-style-type: none"> Review Slides (Link: https://cutt.ly/bH7gJVO) & discuss Information (Assign "Comprehension Questions" following each topic) 	4-5 class periods Go over each topic (i.e. plants vs. animals) each day w/comp questions to follow
Huaka'i- Plant identification (Scavenger Hunt) (Link: https://cutt.ly/GH7hpX1) <ul style="list-style-type: none"> Hardcopy and Digital copy available. Digital copy available if students are able to bring iPads on huaka'i 	1 day at Kauhale (Hoakalei)
Native Plant Research (Link: https://cutt.ly/LH7h3U6) <ul style="list-style-type: none"> Use the information you gathered on the field and research additional information on the internet (links provided on slides.) Present your information in the template provided 	3-5 class periods
(Additional Follow-Up Lesson): Native/Non-Native Animal Research (Link: https://cutt.ly/MH7jrOe) <ul style="list-style-type: none"> Choose an animal from slides 4-8 to research. Present your information in the template provided on slides 	3-5 class periods

Unit Assessment Plan

Formative Assessment Methods Used On a Regular Basis Throughout Unit

- Comprehension questions can be found at the end of each topic throughout the following "Native & Non-Native Plants and Animals Introduction" [Slides](#) (Link: <https://cutt.ly/bH7gJVO>)

Summative Assessment/s

- [Native Hawaiian Plant Research](#) (Link: <https://cutt.ly/LH7h3U6>)
 - Choose a native or non-native plant to research
 - What does it look like? (Appearance)
 - What was the plant used for by the early Hawaiians?
 - Is this plant a Native or Non-native plant? How do you know?
 - Any other interesting facts about your plant
 - Add pictures of the plant



2. [Native or Non-Native Animal Research](https://cutt.ly/MH7jrOe)

(Link: <https://cutt.ly/MH7jrOe>)

- a. Choose a native or non-native animal to research
 - i. What does the animal look like? (Appearance)
 - ii. Where does the animal live? (Habitat)
 - iii. Is this animal a Native or Non-native animal?
 - iv. Any other interesting facts about your plant
 - v. Add pictures of the animal

APPEARANCE Type here	ANIMAL NAME Type here (Include the English & Hawaiian names)	INTERESTING FACTS Type here
HABITAT Type here	NATIVE OR NON-NATIVE ANIMAL RESEARCH Choose a native or non-native animal to research. Use the internet or information slides to research the following information about your animal:	
NATIVE OR NON- NATIVE? Type here	<input type="checkbox"/> What does the animal look like [Appearance]? <input type="checkbox"/> Where does this animal live? <input type="checkbox"/> Is this animal a Native or Non-Native animal? How do you know if it's native or non-native? <input type="checkbox"/> Any other interesting facts about your animal. <input type="checkbox"/> Add pictures of your animal.	
		PICTURES

Exemplar:

APPEARANCE The 'Ilima flower can be a bright yellow flower. It's leaves are a bright green color. The leaves of the 'Ilima flower can be about 5 inches long and can be very fuzzy. The 'Ilima flower can be Yellow, dull, Rusty red and, more	PLANT NAME <div style="text-align: center;"> 'Ilima Sida fallax </div>	INTERESTING FACTS The 'Ilima plant has no fragrance. There are lots of information on how to grow a 'Ilima flower it needs the right spot to grow. There are lots of bugs to kill the 'Ilima plant like red spider mites, slugs, mealy bugs, and more.
USES OF THE PLANT 'Ilima plant is used to make a lei. The 'Ilima plant also is used for medicine to cure asthma and more. 'Ilima plants is used for floor mats, sleeping mats, and rough mats.	NATIVE OR NON-NATIVE PLANT RESEARCH Choose a native or non-native plant to research. Use the internet or information slides to research the following information about your plant:	
NATIVE OR NON- NATIVE? It is native because when early settlers came to Hawai'i it was already there. We can also tell it is Native because early settlers did not bring it to Hawai'i. If it was non-Native then the early settlers would of brought it to Hawai'i.	<input type="checkbox"/> What does it look like [Appearance]? <input type="checkbox"/> What was the plant used for by the early Hawaiians? <input type="checkbox"/> Is this plant a Native or Non-Native plant? How do you know if it's native or non-native? <input type="checkbox"/> Any other interesting facts about your plant. <input type="checkbox"/> Add pictures of your plant.	
		