Ho'opili Ai uniting keiki & Hawai'i food crops

Lesson Plan: Kalo, 'Uala, Pala'ai & 'Ulu

Overview	This multimedia lesson plan introduces students to Hawaiʻi agriculture and food systems, focusing on locally-grown staple crops. Select one of the four crops featured below and choose from a variety of activities based on materials and time available.						
Learning Objectives	Develop students' relationship with Hawaiʻi-grown staple crops kalo (taro), ʻuala (sweet potato), palaʻai (pumpkin), and/or ʻulu (breadfruit) and the concept of a "value chain" – from farm to fork. Strengthen HĀ (NĀ Hopena Aʻo) among students and school staff.						
Grade Levels	PreK to Grade 5; adaptable for Grades 6-12						
Content Areas	Science, Social Studies						
Materials	 Farm to School Sampler Boxes: <u>Cafeteria Box</u> or <u>Classroom Box</u>. Request a sponsored box <u>HERE</u>. Videos: <u>Keiki Education Playlist</u> <u>Kalo</u>, '<u>Uala & Pala'ai Discussion Questions</u> (standards-aligned by grade level for Science and Social Studies) <u>'Ulu Discussion Questions</u> Coloring Pages: '<u>Ulu / Kalo / 'Uala / Ipu</u> and coloring supplies <u>360° Māla Kalu'ulu Farm Tour</u> and <u>Treasure Hunt for Hawaiian Crops</u> worksheet 						
Additional Resources	Hawaiʻi Farm to School Toolkit (Kalo page / 'Uala page / Palaʻai page / 'Ulu page) 'Ulu Education Toolkit Hawaiʻi Farm to School Resource Hub						
Feedback Forms (Opt)	 FOR STUDENTS: Gather feedback from students on their tasting experience with THIS PAGE! FOR EDUCATORS: You are invited to provide feedback to the organizers via THIS FORM. 						



















Lesson Plan: Kalo

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Crop	Suggested Time	Sub-Goals	Learning Material	Learning & Teaching Activities	More Resources	
Kalo	30 minutes (video, activities, tasting)	Develop student relationships with kalo as a culturally significant and versatile staple food of Hawaiʻi. Introduce the concept of a food system value chain. Practice motor, comprehension, and critical thinking skills.	Video: Get to Know Kalo! (6.5 minutes)	Discussion Questions (standards-aligned by grade level for Science and Social Studies) Kalo Coloring Page Art by Caren Keʻala Loebel-Fried From "Lono and the Magical Land Beneath the Sea" published by University of Hawai'i Press Kalo samples for tasting (at school or take-home)	Taro - Harvest of the Month Toolkit	



















Lesson Plan: Wala

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С	rop	Suggested Time	Sub-Goals	Learning Material	Learning & Teaching Activities	More Resources
'U	ala	30 minutes (video, activities, tasting)	Develop student relationships with 'uala as a culturally significant and versatile staple food of Hawai'i. Introduce the concept of a food system value chain. Practice motor, comprehension, and critical thinking skills.	Video: Get to Know 'Uala! (4.5 minutes)	Discussion Questions (standards-aligned by grade level for Science and Social Studies) 'Uala coloring page Art by Caren Ke'ala Loebel-Fried From "Lono and the Magical Land Beneath the Sea" published by University of Hawai'i Press 'Uala samples for tasting (at school or take-home)	Sweet Potato - Harvest of the Month Toolkit



















Lesson Plan: Pala'ai

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°	Crop	Suggested Time	Sub-Goals	Learning Material	Learning & Teaching Activities	More Resources
	Pala'ai	30 minutes (video, activities, tasting)	Develop student relationships with pala'ai as a culturally significant and versatile staple food of Hawai'i.	Video: Get to Know Palaʻai! (4.5 minutes)	Discussion Questions (standards-aligned by grade level for Science and Social Studies) Pala'ai samples for tasting (at school or take-home) Coloring page preface:	Squash - Harvest of the Month Toolkit
Introduce the concept of a food system value chain. Practice motor, comprehension, and critical thinking skills.			Unlike kalo and 'uala, pala'ai is not a canoe crop. It was brought to Hawai'i by Japanese and Filipino immigrants. However, it is in the same plant family – Cucurbits – as ipu, an important canoe crop introduced to the islands over one thousand years ago. Ipu is not grown for food. The hard gourd is used as a rattle or drum for chant and dance as well as a vessel for carrying water and food, storing dyes, and as a burial receptacle. Source + more info linked here. Ipu coloring page Art by Caren Ke'ala Loebel-Fried From "Lono and the Magical Land Beneath the Sea" published by University of Hawai'i Press			



















Lesson Plan: WW

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Crop	Suggested Time	Sub-Goals Choose one set of sub-goals below per class period	Learning Material Choose one of the videos below per class period	Learning & Teaching Activities	More Resources
'Ulu	30 minutes (video, activities, tasting)	Understand the cultural importance of 'ulu in Hawai'i through mo'olelo. Practice motor skills as well as comprehension and critical thinking skills.	Video: Moʻolelo: The Gift of Kū (4 minutes) 'Ulu Coloring Pages: "The Gift of Kū" Art by Caren Keʻala Loebel-Fried	Discussion questions 'Ulu samples for tasting (at school or take-home)	Breadfruit - Harvest of the Month Toolkit
		Introduce 'ulu as a versatile staple food of Hawai'i. Apply knowledge of the different stages and uses of 'ulu.	Video: 'Ulu - In the Kitchen (3 minutes) (Continued nex	at page)	



















Lesson Plan: WW

Ho'opili 'Ai uniting keiki & hawai'i food crops

(Continued)

Crop	Suggested Time	Sub-Goals Choose one set of sub-goals below per class period	Learning Material Choose one of the videos below per class period	Learning & Teaching Activities	More Resources
'Ulu	30 minutes (video, activities, tasting)	Discuss the importance of nutrition; evaluate the nutritional benefits of 'ulu compared to other foods.	Video: Nutritional Benefits of 'Ulu (3 minutes)	Discussion questions 'Ulu samples for tasting (at school or take-home)	Breadfruit - Harvest of the Month Toolkit
		Meet some of Hawai'i's 'ulu farmers and learn about breadfruit agroforestry in Hawai'i. Practice identifying plants in a native agroforest.	Video: Meet the 'Ulu Farmers (3 minutes) OR Māla Kalu'ulu Agroforestry Farm Tour (4 minutes) 360° Māla Kalu'ulu Farm Tour and Treasure Hunt worksheet for Hawaiian crops		















