

Ku ‘Āina Pa Schedule – Summer Intensive
June 10-16, 2012

Sunday June 10: Opening Night Dinner and Talk: A Sense of Place

- 3:30–5:30 p.m. Check in with Donna Mitts at Village Campus Dorms
- 3:30–5:30 p.m. Registration at HPA Campus Elab (includes Registration for Pde3)
- 5:30–6:30 p.m. Opening Dinner Elab
- 6:30–8:00 p.m. Welcome - Introductions

Evening Talk by Kumu Pua Case and Ku‘ulei Keakealani, Waimea Middle School. This talk will interweave story, values, skills and traditions of the past to explore place as a foundation for what you envision, what you produce, and what you teach in the present and into the future.

Mahalo to the HPA Ohana Association for the gift of Dinner for the Cohort
Mahalo to Sandy Barr – Culinary Arts – Hawai‘i Community College and Mala‘ai Board Member

Monday June 11: Cultivate Our Sense of Place in the Living World

Reflection:	Cultivating Your Sense of Place
EfS Enduring Understandings:	Recognize and Respect the Commons, Live By Natural Law
GLO:	Community Contributor
Readings	<ol style="list-style-type: none"> 1. "What is Education For? Six myths about the foundations of modern education, and six new principles to replace them" by David Orr 2. "Place-Based Education: Connecting Classroom and Community," by David Sobel 3. 4 Short Essays Exploring the Ideas of "Nature Is Our Teacher" (Ecological Principles, Systems Thinking, Solving for Pattern, and Becoming Healthy By Nature), by the Center For Ecoliteracy 4. "Bring on the Learning Revolution," by Sir Ken Robinson, TED Blog 5. "Learning Gardens and Sustainability Education: Bringing Life to Schools and Schools to Life," by Dilafruz Williams. This will be one of our main texts for the cohort. Please read Chapters 1, 2 & 4
Olelo Hawai'i:	<i>Wahi Pana</i> (Sense of Place)

SCHEDULE:

- 6:30–7:30 a.m. Breakfast for Village Campus Dorm
- 8:00–10:00 a.m. *Meet at Mala'ai Culinary Garden*
- Opening: Asking Permission to Enter
 - Introductions – Bio-Mimicry Game
 - Core Guiding Values of *Ku'Āina Pa*
 - Educating for Sustainability – Big Picture
 - Developing Your Sense of Place
 - Housekeeping
- 10:00–10:15 a.m. Break
- 10:15–10:35 a.m.
- The Rituals and Protocols of the Mala'ai Garden
 - Developing A Rhythm of the Class/of the Day/of the Year
 - 2 minutes of silence
 - The Daily Element of Reflection
- 10:35–Noon
- Introduction to the Stations of the Mala'ai Culinary Garden
 - Tool Use and Basic Care: John Holland and Ming Wei
 - Outdoor Kitchen Protocols: Sandy Barr
 - Bed Preparation/Soil Connections: Amanda Rieux
- Noon–12:30 p.m. Closing Circle/Share Reflections from the Morning's Work
- 12:30–1:30 p.m. Lunch in the Garden
- 1:30–1:45 p.m. Travel to Elab – HPA Upper Campus

- 1:45–2:15 p.m. • Housekeeping
 • Sense of Place – Cartography
- 2:15–3:00 p.m. Cultivating A Sense of Place: Amanda
 1. In a dyad: Describe what you know about “your garden” place? (Outline)
 2. Groups/mixed Regions (5-6 people each)
 Using the morning “inquiry questions” - Group Discussion
 Share protocols and rituals from your gardens. What works/doesn’t work
- 3:00–3:15 p.m. Reflection and Sharing on Group Work
- 3:15–3:30 p.m. Break
- 3:30–4:15 p.m. • Backwards Design a Lesson on “Sense of Place”: Koh Ming Wei
 • Using a Rubric – work in teams or as individuals
 • Begin with a story, a *mo‘olelo*
 • Does this lesson have obvious curriculum ties to class curriculum? (any subject area)
- 4:15–7:00 p.m. Break and Dinner on your own
- 7:00–8:30 p.m. • Form and Function
 • Earth as Apple- the Really BIG picture
 • “DIRT – The Movie”
 • Wow – Share your thoughts on the Wall as you leave

Tuesday June 12: The Living Soil

Reflection:	Nurture Interconnectedness, Humans and <i>Ha'a Ha'a</i>
EfS Enduring Understandings:	Diversity Makes our Lives Possible
GLO:	Complex Thinker
Readings:	<ol style="list-style-type: none"> 1. "Learning Gardens and Sustainability Education," by Dilafruz Williams: Chapter 3 2. Gardening with Microbes: Putting Nature Back in Control 3. The Living Soil, by Tad Hussey 4. The Soil Biology Primer - NRCS: Elaine R. Ingham, Oregon State University, The Soil Food Web Resources
Olelo Hawai'i:	<i>Ka Pilina</i> (the relationship that is cared for) <i>E malama ke 'Āina, e malama ka 'Āina ia 'oe</i> (Take care of the land and the land will care for you).

SCHEDULE: (Bring Your bag of Soil to class)

6:30–7:30 a.m.	Breakfast in Dorm
8:00–8:30 a.m.	<i>Meet at Mala'ai Culinary Garden</i> <ul style="list-style-type: none"> • Thoughts on Humus and Ha'a Ha'a: Amanda Rieux • Reflections on “Dirt the Movie” – “Wow Wall Chart” or Chapter 3
8:30–10:00 a.m.	<ul style="list-style-type: none"> • “Soil: The Foundation for Plant Growth” Dr. Norman Arancon, Professor of Horticulture, UH Hilo
10:00–10:15 a.m.	Break
10:15–10:30 a.m.	Mala'ai ritual and protocol / 2 minutes of silence/Looking at soils
10:30a.m.–Noon	Creating Soil Fertility in the School Garden – 3 Rotations – 30 minutes each (3 groups of 10) <ul style="list-style-type: none"> • Aerobic Composting: Amanda Rieux and Sarah Sullivan • Vermicomposting Systems: Norman Arancon and Steve Velonza • The Soil Food Web: Looking At Soil Fertility: Tane Datta
Noon–12:30	Closing Circle/Reflections
12:30–1:30 p.m.	Lunch in the Mala'ai Garden
1:30–1:45 p.m.	Travel to ELab
1:45–2:15 p.m.	HCPS III Science Standards and Benchmarks and Garden-Based Learning: Making Connections – An Introduction: Nancy Redfeather
2:15–4:00 p.m.	<ul style="list-style-type: none"> • Lava to Lono: Soil and Social Development in Hawai'i: Noa Lincoln • The Soil Food Web: Soil Health Observations and Activities for the

Elementary and Middle School Student.

- Reflection

4:00–7:00 p.m. Break and Dinner on your own

7:00–8:30 p.m. An Evening Talk with Jerry Konanui, Kalo Farmer and his Film “*Malama Haloa*”

**Wednesday June 13: Cultivating Hawaiian Agricultural Knowledge:
Mo‘olelo/History/Practices/Culinary**

Reflection:	<i>He wa‘a he moku, he moku he wa‘a</i>
EfS Enduring Understandings:	We are all in this together. We are all responsible.
GLO:	Quality Producer
Readings:	<ol style="list-style-type: none"> 1. "Learning Gardens and Sustainability Education," by Dilafruz Williams: Chapter 9 2. Hawaii Island Agricultural Zones, Circa A.D. 1823: An Ethnohistorical Study by T. Stell Newman. Follows the Journal of William Ellis around the Island of Hawai‘i. Published by: Duke University Press 1971 3. Ethnobotany of the Hawaiians by Beatrice H. Krauss. This Essay covers all the major uses of the Hawaiian Crops and Plants. University of Hawai‘i, Lyon Arboretum Lecture 1974
Olelo Hawai‘i:	<i>‘Ai Nana (food first) and Ka ‘Ai Hawai‘i (the food of Hawai‘i)</i>

SCHEDULE:

- 6:30–7:30 a.m. Breakfast in Dorm
- 8:00–9:00 a.m. *Meet at Mala‘ai Culinary Garden*
- Reflection of the Day
 - Kumu Keala Ching of Ka Pa Hula Na Wai Iwi Ola: “*Ku ‘Āina Pa*” an oli for our cohort.
- 9:00–10:00 a.m. Hawaiian Crops: ‘Ike, Mo‘olelo, Uses, and Propagation
- Kalo: Jerry Konanui
 - Ko and Ulu: Noa Lincoln
 - Uala: Aurora Kagawa
 - La‘au Lapa‘au: Kamuela Naihe
 - Mai‘a and Niu: Chris Carter and Geoff Rauch
 - Cassava: Amanda Rieux and Melissa Chivers
- 10:00–10:15 a.m. Break & Snack
- 10:15–10:45 a.m. The Mo‘olelo of Haloa – Lanakila Mangauil
- 10:45 a.m. –Pau *Pa‘ina* - Preparation of Hawaiian Food Crops
- Garden Stations:
- *Laulau*: Nancy Redfeather and Sarah Sullivan (Everyone please come to this station during the day to make laulau)
 - *Kalo*: Ku‘i with Jerry Konanui, Manuel Rego, and Lanakila Mangauil
 - *Uala*: Palula Preparation with Aurora Kagawa
 - Medicinal Teas: Preparation with Kamuela Naihe
 - *Ko* and *Ulu*: Preparation with Noa Lincoln
 - *Mai‘a* and *Ni‘u*: Preparation with Chris Carter and Geoff Rauch
 - Cassava: Amanda Rieux and Melissa Chivers
 - Fish: Ming Wei

- Kitchen Preparation: Sandy Barr
Setting the tables for the pa'ina.

When everything is prepared and the stations cleaned we will have our pa'ina.
After pa'ina thoughts by Uncle Chadd Paishon

Please stay everything is cleaned and put away. No evening program.

Thursday June 14 – Integrating Science in the Garden with Big Ideas

Reflection and EfS Enduring Understandings	EfS Enduring Understandings <ul style="list-style-type: none"> • Recognize and Respect the Commons • Live by Natural Laws • We are all in this together • Diversity makes our lives possible • We are all responsible • Create change at the source not the symptom • It all begins with a change in thinking
GLO:	Self Directed Learner - Life Long Learner
Readings:	1. "Biomimicry in Action," by Janine Benyus, TED talk 2. "Garden-Based Learning: Global View, Local Development - The rationale, the purpose, the function," by Koh Ming Wei 3. "The New Facts of Life," by Fritjof Capra, Center for Ecoliteracy 4. "Developing A Sense of Place and an Environmental Ethic: A Transformative Role for Hawaiian/Indigenous Science in Teacher Education," by Pauline Chinn, UHM Paper Presented at a Conference in 2005
Ololo Hawai'i:	<i>Ho 'o Hou ke Ola</i> – (return again the life)

SCHEDULE:

- 6:30–7:30 a.m. Breakfast in Dorm
- 8:00-10:00 a.m. *Meet at Mala 'ai Culinary Garden*
- Introduction to Education for Sustainability (EfS) – Ming Wei
 - GLO/EfS Rubric
 - Definitions of STEM – Thoughts on integrating Green STEM
 - Curriculum Mapping
 - Research and Reflection for personal and professional growth/Action Research
- 10:00–10:15 a.m. Break
- 10:15 a.m. 2 minutes of silence
- 10:15–11:15 a.m. Choose one Workshop (below)
- 11:15–12:15 p.m. Choose one Workshop (below)
- Art in the Garden with Jane Taylor (Portable Classroom)
 - Seasonality/Weather and Crops by Season. Propagation in the Nursery Transplanting/Care with Nancy Redfeather
 - Seed Saving/Direct Sowing in the Garden with Amanda Rieux and Sarah Sullivan
- 12:15–12:30 p.m. Closing Circle Reflections
- 12:30–1:30 p.m. Lunch in the Garden

- 1:30–1:45 p.m. Travel to Elab
- 1:45–4:00 p.m.
- “Discovering Science in the Garden”: John Fisher
 - The Power of Science Education
 - Inquiry as the basis of science - the garden is always full of questions
 - Create investigable questions
 - Brainstorming Science Lessons in the Garden
 - Science concepts that are prime for garden-based learning
 - Grade level grouped teams review Hawai‘i science standards and share/brainstorm activities to be done for each grade level. Laptop/recorder for each group.
 - Backwards Design Lesson Plan: Ming Wei
- 4:00–7:00 p.m. Break and Dinner
- 7:00–8:00 p.m. Elab Evening Talk “The Garden, A Master Teacher “
Presentation by John Fisher

Friday June 15 – Integrating Garden and Curriculum

Reflection:	<i>Kau i ka 'Āina</i> (Hands turned to the soil)
Efs Enduring Understandings:	Create change at the source not at the symptom. It all begins with a change in thinking.
GLO:	Effective Communicator
Readings:	<ol style="list-style-type: none"> 1. The Garden, A Master Teacher" by Kirsten Berhan 2. Teaching to the Standards: California School Garden Network (for reference only) 3. "Linking Gardens to School Curriculum": California School Garden Network - An Essay
Olelo Hawai'i:	<i>E a'o i na kaiapuni a'o apau – Learn in all environments</i>

SCHEDULE

6:30–7:30 a.m.	Breakfast in Dorm
8:00 a.m.	<i>Meet at Elab</i>
8:00–8:15 a.m.	Looking Back/Looking Forward
8:15–10:30 a.m.	<p>“ School Garden Visioning and Identifying Resources: John Fisher</p> <ul style="list-style-type: none"> • School teams envision what they want for their programs and students. • Develop goals (short term, long term) • Make a plan • Teams share goals • Resources to Support Your Vision • Share Models that work to sustain school gardens • Resource Share out - "Interview a Resource"
10:30–10:45 a.m.	Break
10:45–11:45 a.m.	“How to Write a Great Lesson” – Sarah Sullivan
11:45–12:15 p.m.	Reflections
12:15–12:30 p.m.	Travel to Mala‘ai (bring your notes from the morning)
12:30–1:30 p.m.	Lunch in the Garden
1:30–2:30 p.m.	Team Work: Writing Lessons (continued work from the morning)
2:30–3:30 p.m.	Mala‘ai Garden Clean-up – Service learning: Amanda
3:30–4:00 p.m.	Private Reflection Time in the Garden: Amanda
4:00–4:30 p.m.	Final Circle - Sharing Reflections on the Week
4:30–7:00 p.m.	Break and Dinner
7:00–8:00 p.m.	Creative Skill Share – Cohort Party - Place to be determined

Songs, skill share, poems, stories, crafts, costumes, and music. Please let Hayley Piper Blondin know if you would like to be on the evening's program.

You can reach Hayley at hblondin@waimeacountryschool.org

Saturday June 16 – “Integrating Garden and Curriculum”

Reflection:	Sustainability/‘ <i>Āina</i> /‘ <i>Ai</i> : Making Connections
EfS Enduring Understandings:	Enduring Understandings for Sustainability Education – Jaimie Cloud – www.cloudinstitute.org <ol style="list-style-type: none"> 1. A healthy and sustainable future is possible 2. We are all in this together 3. Healthy systems have limits 4. Recognize and protect the commons 5. Reconcile individual rights with collective responsibilities 6. Diversity makes our lives possible 7. Create change at the source not the symptom 8. Think 100 years 9. Read the feedback 10. It all begins with a change in thinking 11. Live by the natural laws 12. We are all responsible
GLO:	Ethical and Effective Use of Technology-a New View
Readings:	1. "Teacher As Researcher Taking Action Research To Task," by Beverly Johnson from Teaching Today
Olelo Hawai‘i:	<i>Ho ‘o Hou ke Ola</i> – (return again the life – sustainability)

SCHEDULE:

6:30–7:30 a.m.	Breakfast in Dorm
8:00 a.m.	<i>Meet at Elab</i>
8:00–8:30 a.m.	<i>Ku ‘Āina Pa</i> Team Reflections
8:30–9:45 a.m.	Assessment and Evaluation: Sharing Formats: Ming Wei <ul style="list-style-type: none"> • Observation • Action Research • Personal Reflection in Journal
9:45–10:30 a.m.	Teacher Team Work
10:30–10:45 a.m.	Break
10:45–11:45 a.m.	<ul style="list-style-type: none"> • Course Timeline and Expectations • Pde3 Checklist – Cohort Checklist • Schedule for the Year • Summer Intensive Evaluation – Survey Monkey
11:45–12:30 p.m.	Closing Circle and Reflections by Cohort
12:30 p.m.	Lunch at Elab <i>Pau</i>

All agenda items are subject to change.