Aquaponics in Education

Rigor, Relevance & Relationships

Ipu Waiwai Kula – ʻAE

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Our Partner Schools:

- Highlands Intermediate
- Kanoelani Elementary
- Keoneula Elementary
- Manana Elementary
- Nanakuli Intermediate
- Palisades Elementary
- S.W. King Intermediate
- Wai‘anae Intermediate

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Our Project Partners:

- HIDOE Leeward District
- UH Mānoa College of Tropical Agriculture
- Healing Arts
- Hapa Farms
- Tapiki LLC

College of Tropical Agriculture and Human Resources
UNIVERSITY OF HAWAI'I AT MĀNOA

tapiki

HapaFarms

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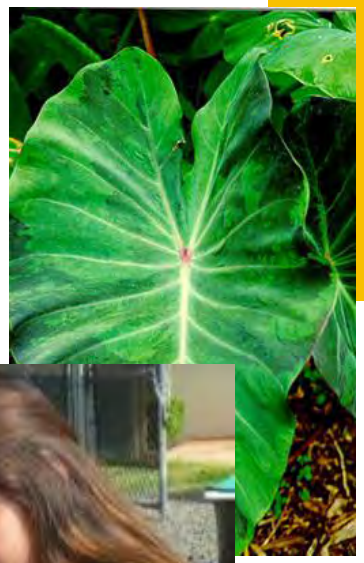
Why Aquaponics?



Sustainability: Address issues of

- Climate Change
- Alternative Energy
- Water Quality
- Water Use
- Land Use
- Food Security

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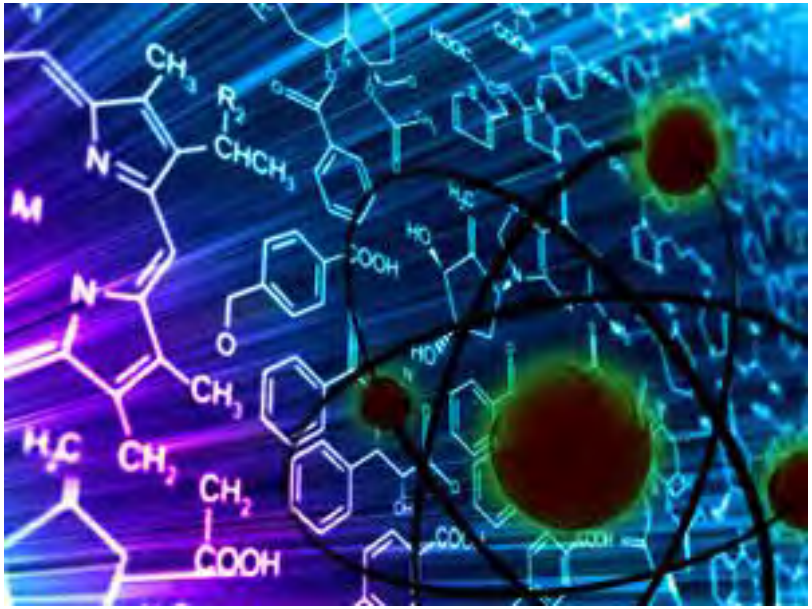
Why Aquaponics?

Rigorous Science

- Digital Testing
- Litmus Testing
- Life Sciences / Biology
- Chemistry
- Earth Science
- PK-21+



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Why Aquaponics?

Interdisciplinary and Inquiry-Based

- Scientific Method - Investigation
- Students 'uncover'
- Relevant and Engaging
- Incorporation of:
  - Math
  - Language Arts
  - Science
  - Social Studies
  - Other Disciplines

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What is culture-based education (CBE)?

- Shared ways of being, knowing and doing
- Teaching and learning about (indigenous):
  - Values / Norms
  - Knowledge
  - Beliefs
  - Practices
  - Experiences
  - Language

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5 Elements of CBE

- Hawaiian Language Terms
- Family and Community
- Context Learning
- Content Learning
- Culturally Responsive Evaluation & Assessment

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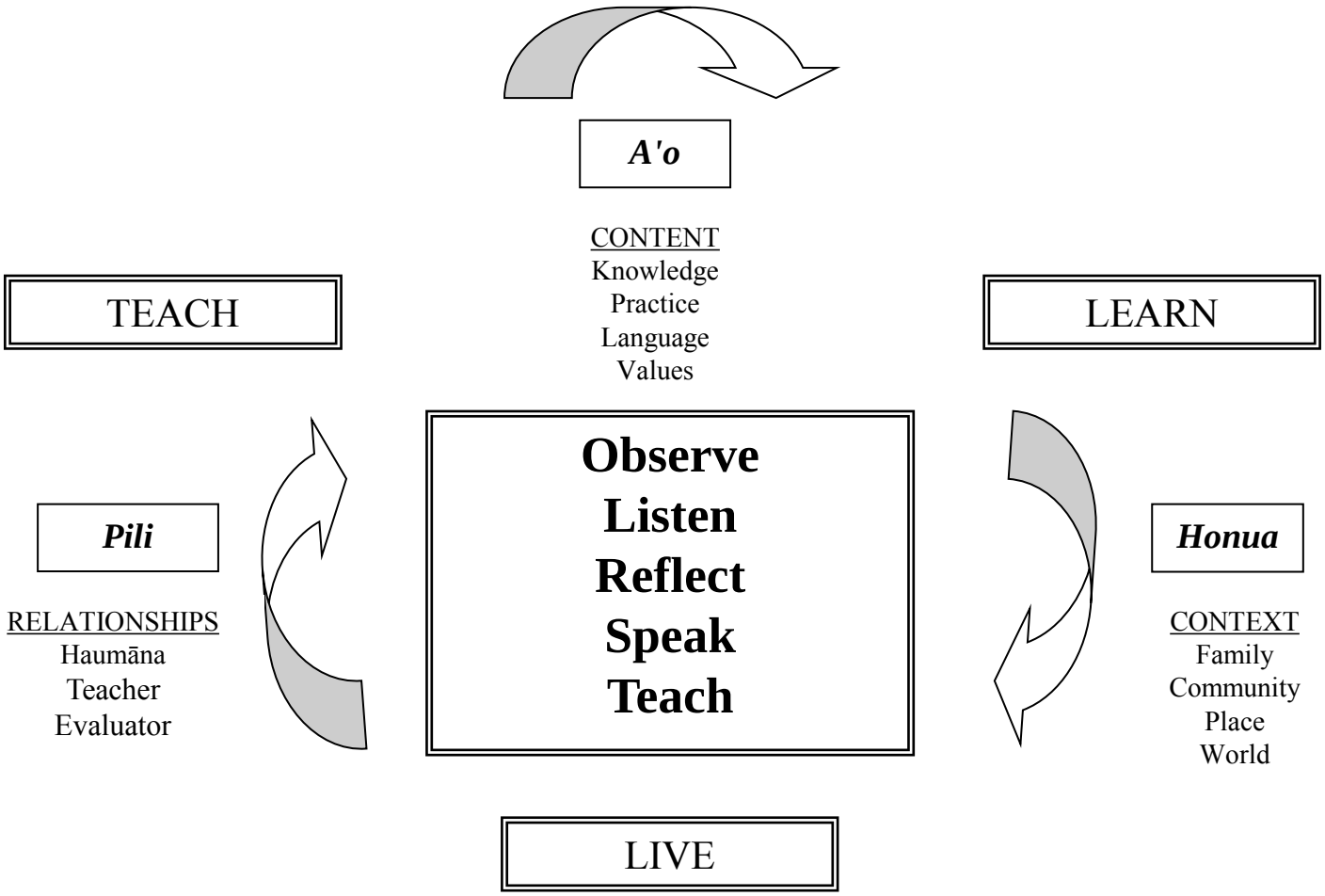
Model of Culture-based Evaluation



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MAHALO!

For more information, please visit us on-line at

www.isishawaii.org

www.stemhawaii.com

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