

'Ewa 'Āina Education Initiative

Unit Plan: The Plants of the `Ewa Moku
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`Ewa `Āina Site: Hanekēhau Learning Farm

Unit Plan: The Plants of the `Ewa Moku, link to unit plan available via the following URL:
<https://cutt.ly/PKsTkMA>

Detailed Lesson-Project Plan #1
Middle/High School (SPED)

Lesson Title - Plants and How They Grow

Essential Unit Questions Addressed - What do native plants need to survive in the Leeward area?

Educational Standards that the lesson will help students achieve

Standard 2: CAREER PLANNING: Explore and understand educational and career options in order to develop and implement personal, educational, and career goals.
Benchmark: CTE.9-12.2.3 - Apply appropriate and safe behaviors and practices in the school, community, and workplace

Reading Literature: Craft and Structure

11-12.RL.4 Determine the meaning of words and phrases as they are used in the text, including figurative and connotative meanings; analyze the impact of specific word choices on meaning and tone, including words with multiple meanings or language that is particularly fresh, engaging, or beautiful.

HĀ framework and/or Hawaiian Culture integrated into this lesson

Students will work as a group to grow plants that they will share with others whether it be as a gift or as a dish that they helped prepare and will be taught the meaning of the following terms through discussion, verbal reinforcement, a word wall display and activity: *Aloha, Laulima, Kokua, Mālama*

Materials needed

Supplies

Pots, soil, scoop, watering can, tray, seed/mini plant starters, sequence cards, word-wall words, daily task checklist

Suggested seeds include lettuce, radish, 'a'ali'i, ma'o, 'ilie'e, naupaka, 'Ilima, uala
For assistance obtaining native plant seeds for species listed, contact the Mālama Learning Center
<https://www.malamalearningcenter.org/>

Student Handouts

Copies of the following handouts for each student

- "Planting a Flower" available via the following URL:
<https://drive.google.com/file/d/1CVpMUxPgDBts-Ls7GESruyJBdh5Ld6YX/view?usp=sharing>
- "Planting" available via the following URL:
https://drive.google.com/file/d/1ZHICT2eSDBXzfdHI6I7UrwY1yz_869gP/view?usp=sharing and cut this handout into cards

Pedagogy (methods) Used Hands on activity.

Lesson Introduction

Show students a plant that is already growing in a pot. Ask things about the plant (What is this? What is the brown stuff in the pot? What color is the plant?)

Show video: How to Plant a Seed: A How-To Book - <https://youtu.be/EsODAlsY4NM>

Ask students what plants need to live.

Play the video The Needs of a Plant (song) - <https://youtu.be/dUBIQ1fTRzI> to help review and reinforce.

Instructional Sequence

Teacher Does	Students Do
Go over the planting sequence that students have at their desk.	Follow along and sequence cards from “Planting” handout at their desk in correct order.
Show students where the supplies are that students need	Ask students to name each supply after all of them are shown.
Ask students “what do we do first?”	Student answer or show correct sequence card from the “Planting” handout
Demonstrate each step in the planting process	Students continue to follow the sequence to plant their seed with adult assistance.

Closure (Review, formative/summative assessment)

Assessment: Mixing up the sequencing cards and having the students put them in the correct order.

Closure: Explain to students that we need to take care of our plants: check on the plant, provide food and water daily

Accommodations for diverse learners

Variation on type/amount of assistance with the planting and monitoring process of plants. Modified worksheets to allow for as much independence as possible.

Associated media to introduce or guide students if referenced.

How to Plant a Seed: A How-To Book - <https://youtu.be/EsODAlsY4NM>

The Needs of a Plant (song) - <https://youtu.be/dUBIQ1fTRzI>

Optional but recommended for review:

Peep and the Big Wide World: Peep Plants a Seed - <https://youtu.be/Yxs7P7LWzDg>

We Plant A Seed - <https://youtu.be/zxl6Kiy7NPI>

Formative Assessment Method/s For This Lesson

- Sequencing of planting and plant life cycle (individual)
- Point or stating plant needs (small group)

Explain How This Lesson Relates To the Unit Summative Assessment

Planting and taking care of plants that may be used for cooking/crafting activities or for restoration at Hanakāhau Learning Farm