



## **The Three W's: Wind, Waves, and Wings**

Lesson Plan for Grades K-3

### **Focus Question**

Why is Hawai'i such a special place? How did plants and animals get here?

### **Lesson at a Glance**

Students will participate in hands-on activities by the 'Ōhi'a Project that will help them understand how native plants and animals arrived to Hawai'i from long distances.

### **Key Concepts**

Native plants and animals got to Hawai'i from far away without the assistance of people. They came via the three Ws -- Wind, Waves and Wings. Most things did not make it because of the long distance.

### **Objectives**

Students will be able to:

- Observe and identify different ways that animals and plant seeds move.
- Name three ways that plants and animals reached Hawai'i.
- Identify what characterizes a plant or animal as native vs. non-native.

### **Standards**

Standard 3: Life and Environmental Sciences: ORGANISMS AND THE ENVIRONMENT. Understand the unity, diversity, and the interrelationships of organisms, including their relationship to cycles of matter and energy and the environment. Benchmark sc.2.3.1: Describe how animals depend on plants and animals.

### **Subject Areas**

Science

### **Time**

1 week

## Materials

Maoli Nō DVD and DVD player

‘Ōhi‘a Project lessons grades K-3: “Flying, Floating and Swimming,” “Aloha Forest Friends” and “Wind, Waves and Wings”

## Procedure

1. Introduce the lesson by showing the song, “*Ke Ho‘olono Nei*” on the Maoli Nō DVD. Discuss and brainstorm how the different plants and animals shown may have come to the islands.
2. Explain the three W’s of transportation. Having samples of different types of seeds will help with this. Take the students outdoors to determine which seeds can be blown by the wind, eaten by birds or stick to feathers, and float in the water.
3. Conduct the following lessons from the ‘Ōhi‘a Project: “Flying, Floating and Swimming,” Plants and Animals K-1, p. 74; “Aloha Forest Friends,” Plants and Animals K-1, p. 102; and “Wind, Waves, Wings,” Plants and Animals, Gr. 2-3, p. 279.
4. Reinforce the concept of native vs. non-native by asking students what makes a plant or animal native to a place (got to a place by one of the three Ws without human help.)

## Resources

[www.hawaii.edu/bird](http://www.hawaii.edu/bird)

