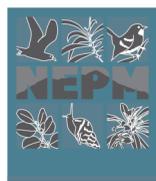


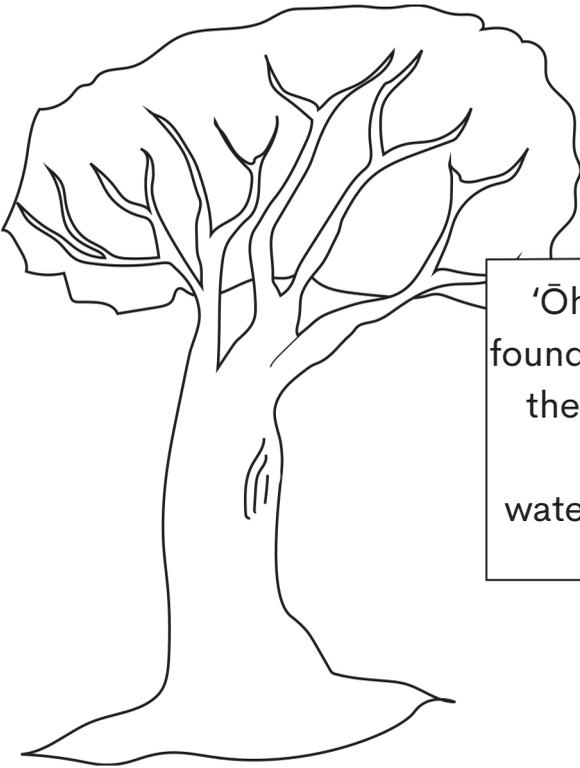
'Ōhi'a for our Future



Let's Learn about 'Ōhi'a!



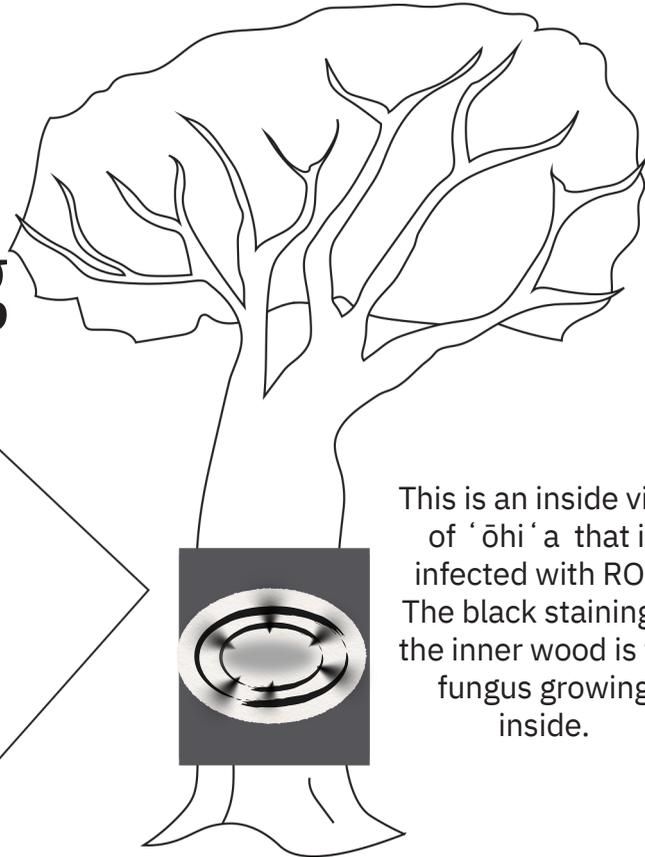
What is 'Ōhi'a ?



'Ōhi'a is a native tree that is only found in Hawai'i and no where else in the world! 'Ōhi'a is the backbone Hawaii's native forests and watersheds which are our source of fresh water.

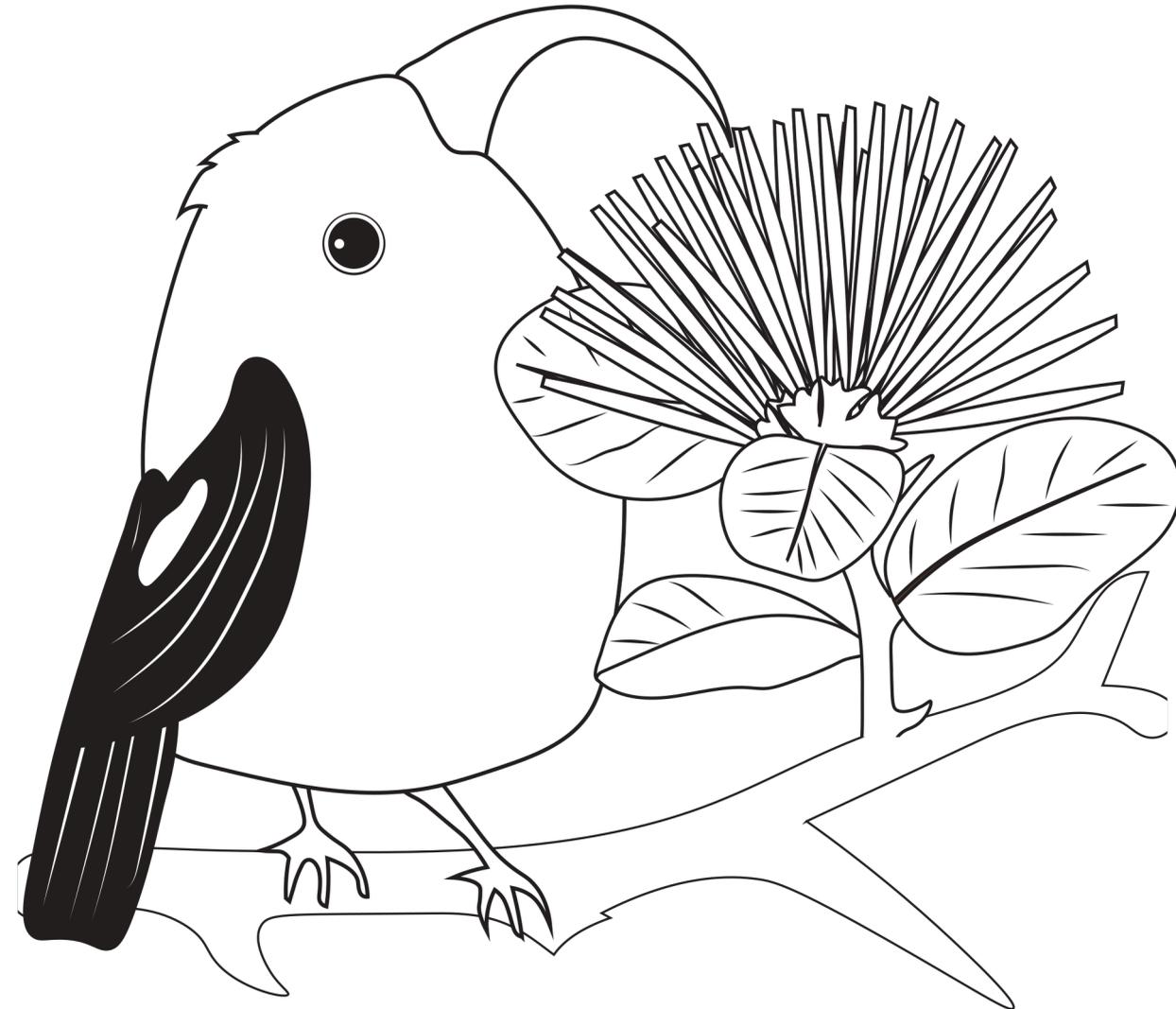
What is happening to 'Ōhi'a?

'Ōhi'a is being infected by a fungus that causes a disease, Rapid 'Ōhi'a Death (ROD). This fungus has already killed over a million 'Ōhi'a on Hawai'i Island.



This is an inside view of 'Ōhi'a that is infected with ROD. The black staining in the inner wood is the fungus growing inside.

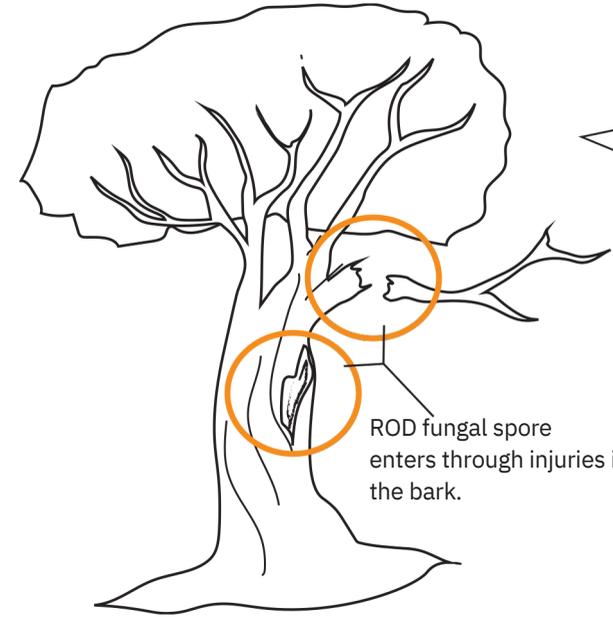
Hi! My name is Ipo 'Iwi and I love to sip the sweet nectar from 'Ōhi'a lehua flowers. My favorite thing to do is to help 'Ōhi'a trees make new seeds by moving pollen from one flower to another. This is called pollination. I love to watch our healthy forest grow!



To help prevent the spread of Rapid 'Ōhi'a Death you can assist an adult in brushing off soil and spraying 70% rubbing alcohol on your shoes, bike tires, and gear, before and after each adventure in an 'ōhi'a forest.



How does ROD kill 'Ōhi'a ?



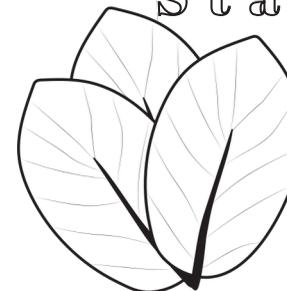
When an 'ōhi'a is wounded the fungus can enter the tree. The fungus grows in the part of the tree that transports water from the roots to the shoots. Water cannot reach the canopy and the leaves turn yellow, then brown and the whole tree dies.

Signs of Rapid 'Ōhi'a Death



This is the inner wood of an 'ōhi'a that is infected and fungus is growing inside the sapwood.

Staining



Yellowing

The leaves of 'ōhi'a trees that have ROD will turn yellow to brown within days to weeks.



Browning

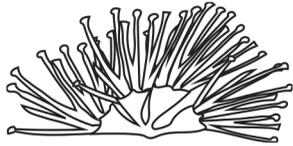
The 3 Ways Plants get to hawaii

Draw a line to match how each plant seed came to Hawai'i.

1. Small and light seeds may float on wind currents to Hawai'i.

2. Seeds with the ability to float can be carried on strong waves and ocean currents to Hawai'i.

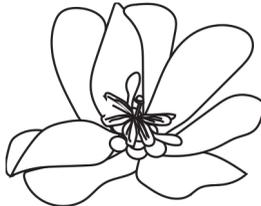
3. Seeds that are sticky or have hooks may catch a ride on the wings of a bird flying to Hawai'i.



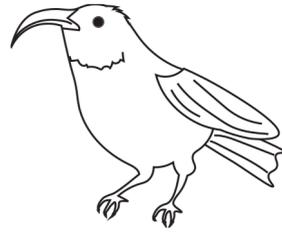
'Ōhi'a Lehua have Small seeds



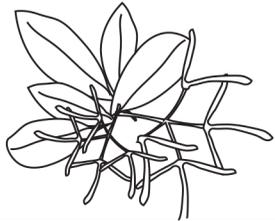
Waves



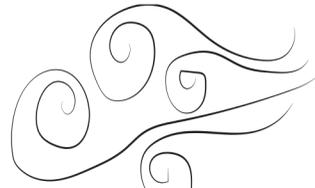
Naupaka have Buoyant seeds



Birds



Pāpala kēpau have Sticky seeds



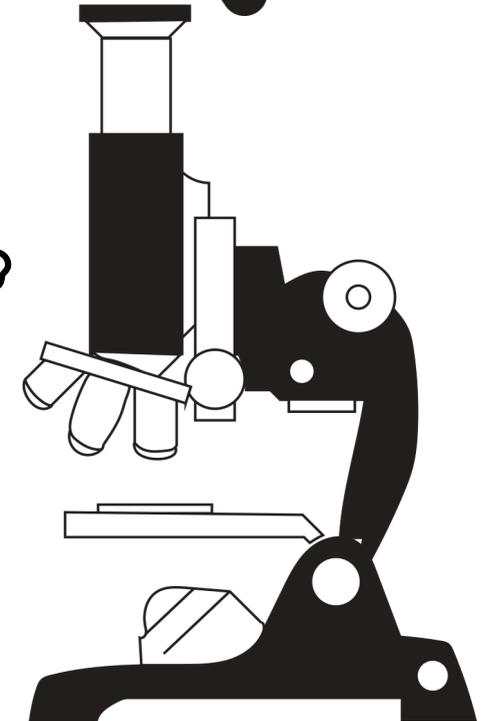
Wind

Did you know that many of Hawai'i's native flowering plants came from seeds that hitched rides with birds? While sticky or barbed seeds attach to their feathers, other seeds travel in mud caked on a bird's feet or cross the ocean in the stomachs of birds.

Key: 'Ōhi'a Lehua =Wind, Naupaka =Waves, Pāpala kēpau =Birds

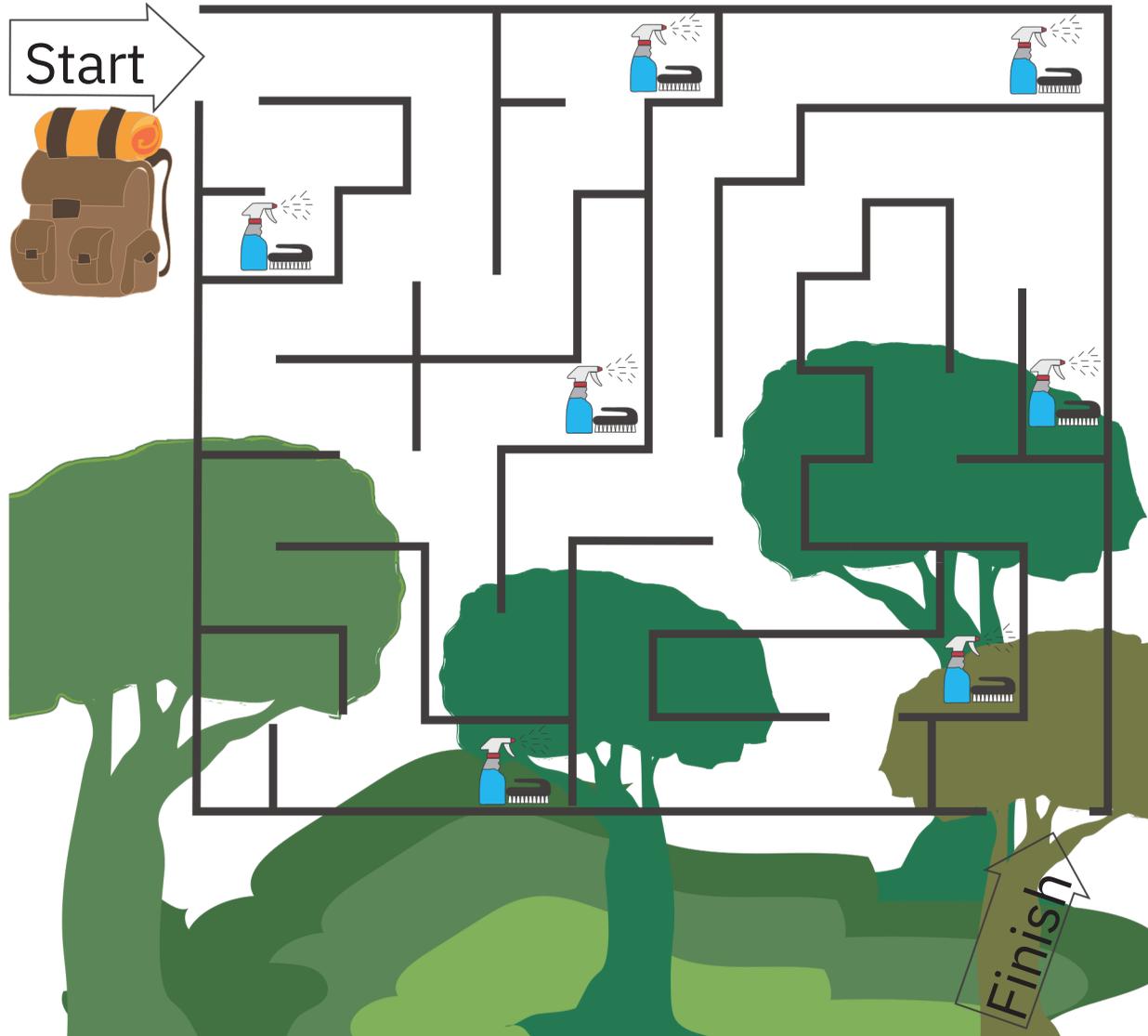
Help the scientists

To help the scientists with Rapid 'Ōhi'a Death research you can keep an eye out for any 'ōhi'a that have signs of ROD. What are 3 signs of ROD? Draw yourself as part of the science team.



Key: Rod Signs = Yellowing, Browning, Staining

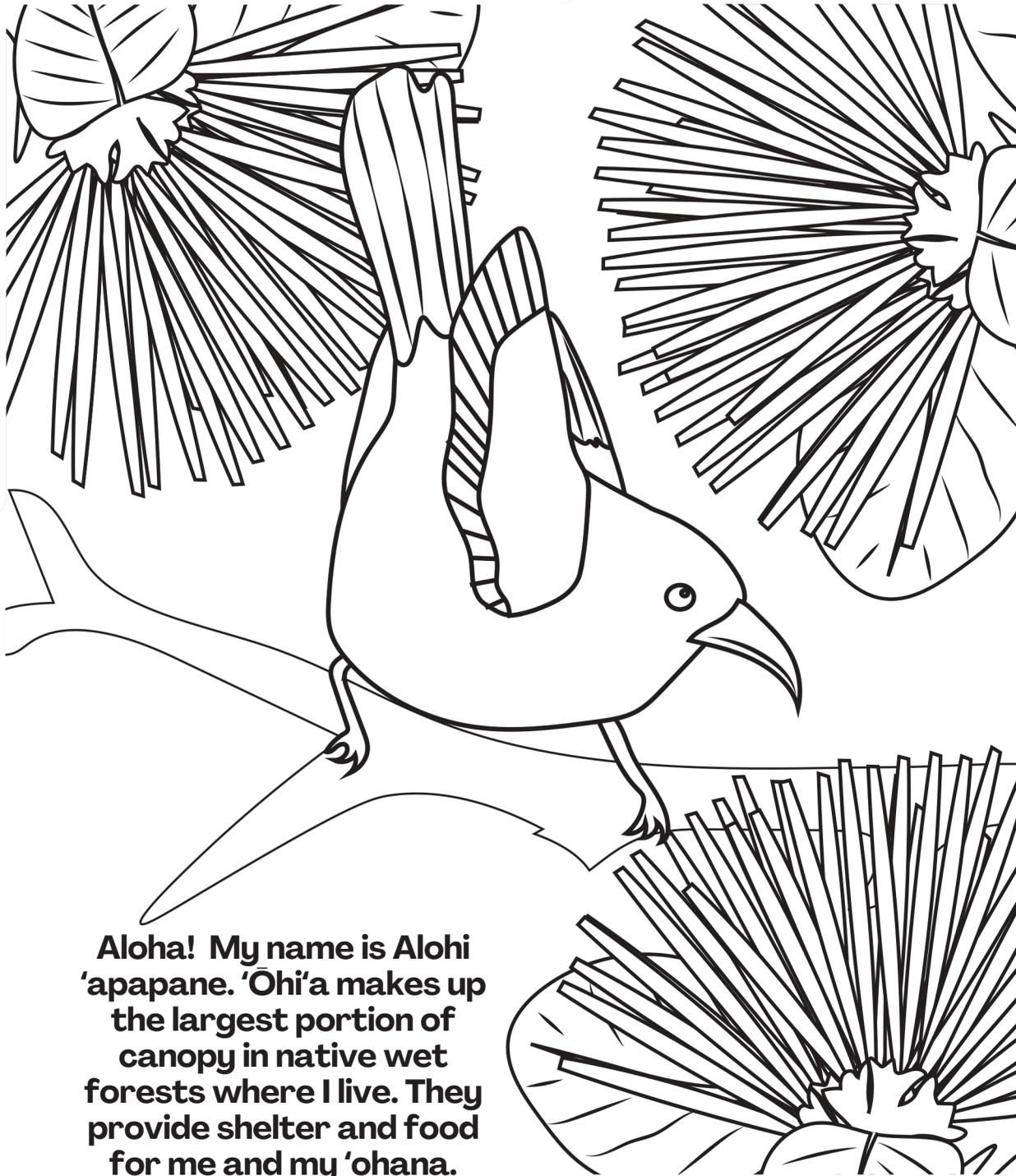
Can you help the hiker find the best route through the forest? Be careful, dead-end paths are infected with ROD. Help the hiker find the path that is ROD free. Remember to disinfect her boots with 70 percent rubbing alcohol if she takes the wrong path.



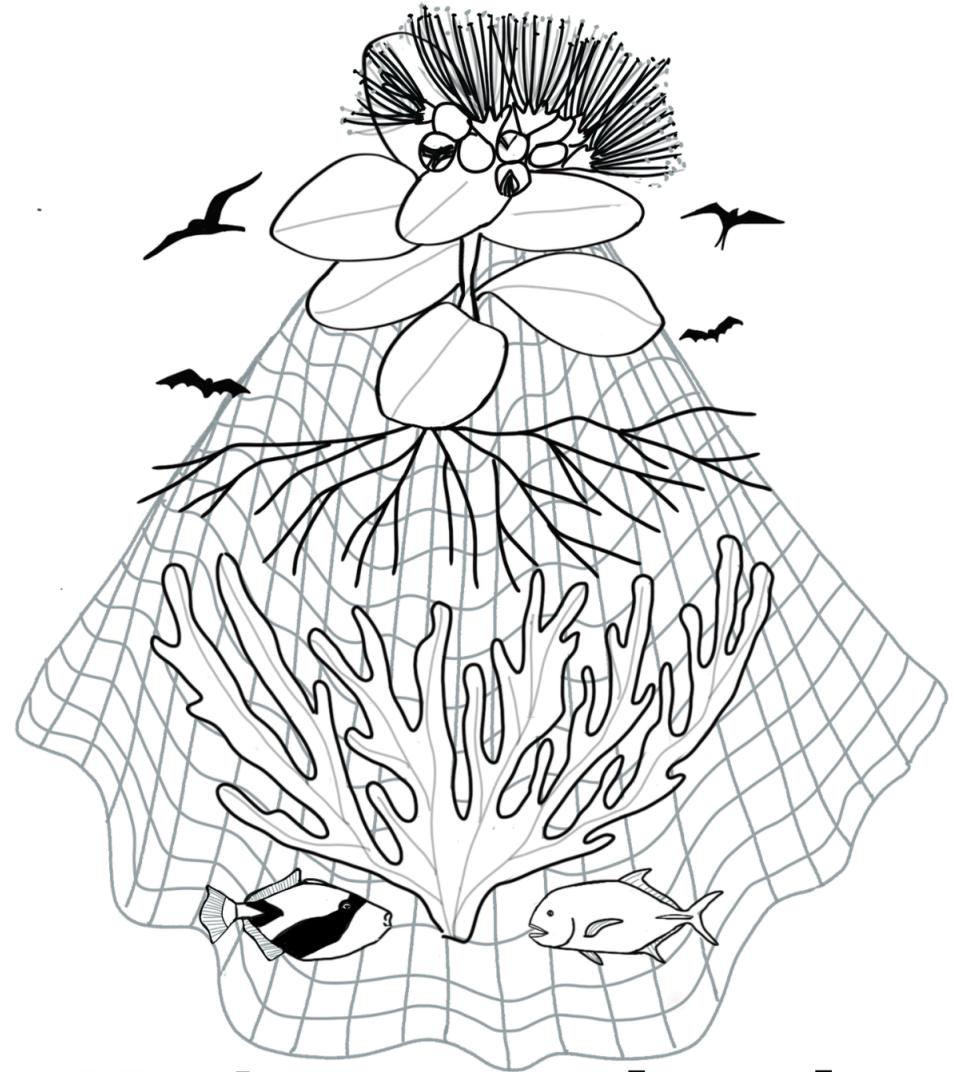
Finish drawing the face of the hula dancer



Hula dancers often choose to use plants other than 'Ōhi'a to adorn themselves and their implements. Using alternative plants helps protect 'Ōhi'a and prevent the spread of Rapid 'Ōhi'a Death disease.



Aloha! My name is Alohi 'apapane. 'Ōhi'a makes up the largest portion of canopy in native wet forests where I live. They provide shelter and food for me and my 'ohana.



Ka 'upena o ke ola *The net of life*

Ōhi'a are the most plentiful native tree in Hawai'i and serve as the foundation of our forests. Our forests help to capture and provide us with fresh water, lessen climate change impacts, reduce flooding and erosion into our coral reefs, and provide an ecosystem for unique plants and wildlife.

'Ōhi'a 'Ōhi'a 'Ōhi'a
LveL veL ve

Connect the dots to help Pika Partulina make his shell! Pika loves to eat specific fungi off of the 'ōhi'a leaves.



Memory Game

The rules for playing “Memory”

1. Cut out cards along dotted lines.
2. Mix up the cards and lay them in rows, face down.
3. 1-2 players. Each player picks two cards to turn over.
4. If the two cards match, keep them. If they don't match, flip them back over.
5. The game is over when all the cards have been matched.
6. The player with the most matches wins

Try to memorize what is on each card and where those cards are.



All about 'Ōhia

'Ōhi'a is endemic that means it only grows in Hawai'i and nowhere else in the world. 'Ōhi'a are a very important source of food and shelter for many native birds, insects, snails, and spiders.

'Ōhi'a are deeply woven into the Hawaiian Culture through mo'olelo (stories), mele (songs), and 'oli (chants). 'Ōhi'a serve as sacred kinolau of many important Hawaiian elementals.

