



## Second Stage Study Guide



Created by the HTY Cast and Artistic Staff

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**WE WELCOME YOU TO A HONOLULU THEATRE FOR YOUTH PRODUCTION!**

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## A Note from the Director

Welcome to one of the most ambitious and exciting projects HTY has ever produced. With MANY partners involved in the creation of this show we know there will be lots you can use directly in your classroom

Taking a moment to connect with these educational materials before you attend the performance will provide you with many practical, hands on lessons you can use in the classroom either prior to attending the productions or afterwards.

Please let us know if you have any questions about these materials or the production. Learning about and appreciating our precious resources like water can be an exciting journey and in this case there will be music, art, dancing, wild costumes and... you may even get wet!

## CONTACT US & TELL US WHAT YOU THINK

**Feedback Forms:** Please return an evaluation form after seeing the performance. We often contact teachers for further information, so include your name, school address and email address.

**HTY Online:** Visit our website for last minute changes or special offers, [www.htyweb.org](http://www.htyweb.org).

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## TEACHER RESOURCES:

Water is an enormous topic. There are innumerable resources online with information and activities that you can do with your students either before or after seeing H<sub>2</sub>O: The Story of Water and Hawaii. The information below is grouped into different areas of interest. We hope you find something that is appropriate for your students and will tie into your grade levels' curriculum.

### The Journey of Water

As water molecules speed up, slow down, get closer or farther apart, they change properties to become liquid, vapor or solid. Water is the ONLY liquid that can exist in these three forms at the Earth's surface. Since the beginning of life on Earth, the same water has been traveling over, under and above the surface of the Earth in an endless journey called the WATER CYCLE.

- `Ohi`a Project teaching unit: [www.Mgf-hawaii.org/PDF/water/wheel\\_of\\_water.pdf](http://www.Mgf-hawaii.org/PDF/water/wheel_of_water.pdf)

*Note: The `Ohi`a Project is an environmental education curriculum, specific to Hawaii, developed by Bishop Museum, the Hawaii Department of Education, and the Moanalua Gardens Foundation. The units contain information, activities, and incorporate the Hawaii Content and Performance Standards III.*

### We Are Water

All living things need water to survive. For humans, all of our body contains water – even our bones! This is why it is so important to drink water and stay hydrated - especially in a hot, sunny place like Hawaii. Water is the perfect drink! Water is calorie-free, sugar-free, fat-free, and costs nothing (when it's from the tap). Water is the best choice to rehydrate your body. Unlike many other places in the world, the water in Hawaii is safe to drink right from the tap. So fill up your water bottle!

- <http://water.usgs.gov/edu/propertyyou.html>

Most commercial sports drinks are expensive and very high in sugar. You can make your own for just pennies, and it's better for you!

- <http://www.yogajournal.com/article/lifestyle/drink-up/>

### Fresh Water in Hawaii: Where Does It Come From?

Do you know the journey water takes before it comes out of our faucets, showers and hoses? Hawaii is very lucky to have perfect geography and geology for capturing rain and moisture, then having it drip down and be stored in the rocks and ground to provide our drinking water.

**What does a healthy forest have to do with our fresh water?**

**What happens when forests are cut down or destroyed?**

- `Ohi`a Project teaching unit: [www.mgf-hawaii.org/PDF/water/Its\\_raining.pdf](http://www.mgf-hawaii.org/PDF/water/Its_raining.pdf)

## Value of Fresh Water in Hawaiian Culture

Kane and Kanaloa, the gods of water, were two of the four main deities among numerous nature gods of the Hawaiian pantheon. They travelled throughout Hawaii and created water sources by plunging their staffs into the ground. Hawaiians believed the gods would always bless the earth with water as long as it was used with respect and water sources were cared for.

“Wai” is the Hawaiian word for fresh water. “Waiwai” means wealth, because ancient Hawaiians understood that without fresh water, they could not survive. There are many place names that contain the word “wai” (like Waikiki).

**Are there any “wai” place names around your school?**

**What do they mean?**

**What are other Hawaiian words to describe the different forms of water?**

- Hawaiian dictionary: [www.wehewehe.org](http://www.wehewehe.org)
- Hawaiian Place Names: [www.ulukau.org](http://www.ulukau.org)

Hawaiians also had many, many names for the different rains that falls across Hawaii.

**Are there any special types of rain that are found in your area?**

- Hanau Ka Ua: Hawaiian Rain Names. By Collette Leimomi Akana. Kamehameha Publishing, 2015.

The ahupua`a was the ancient Hawaiian system of land management that integrated protection and use of water resources. Water was a gift from the gods and all Hawaiians took an active part in its use and conservation.

- [www.hawaii1000friends.org/nmwa/docs/ahupuaa.pdf](http://www.hawaii1000friends.org/nmwa/docs/ahupuaa.pdf)

## Water Conservation

Many places in the world do not have access to the quality and quantity of water that Hawaii has. But we live on islands, and need to be careful not to waste or pollute our precious water.

**What would life be like in Hawaii if we ran out of water?**

- `Ohi`a Project Lesson: Be A Water Watcher: [www.mgf-hawaii.org/PDF/water/be\\_a\\_water\\_watcher.pdf](http://www.mgf-hawaii.org/PDF/water/be_a_water_watcher.pdf)
- <http://www.discoverwater.org/use-water-wisely/>

## Pollution and Marine Debris

Humans use many things that can pollute our water.

**As water travels from land to the sea, what happens to these things that we put into our water?**

**Where do they go?**

**What happens afterwards?**

**What happens to fish and other stream and ocean critters when we pollute their home?**

- `Ohi`a Project Lesson: [http://www.mgf-hawaii.org/PDF/water/where\\_gutter.pdf](http://www.mgf-hawaii.org/PDF/water/where_gutter.pdf)
- <http://marinedebris.noaa.gov/>

In an emergency, be prepared with safe drinking water:

- <http://health.hawaii.gov/sdwb/files/2014/08/DrinkWaterFAQinEmergency.pdf>

## You Can Be a Water Hero!

Now that you know how important water is in our life, here are some things YOU can do in your community:

- Join a beach clean-up with Sustainable Coastlines Hawaii: [www.sustainablecoastlineshawaii.org](http://www.sustainablecoastlineshawaii.org)
- Start a plastic-free project at your school with the Kokua Hawaii Foundation: <http://kokuahawaiifoundation.org/pfh>
- Attend one of the programs at a Hawaii Nature Center and learn about the importance of streams and different life cycles. [www.hawaiinaturecenter.org](http://www.hawaiinaturecenter.org)
- Learn the importance of native plants and how they help to protect our watersheds. [www.papahanakualoa.com](http://www.papahanakualoa.com)

....And ALWAYS conserve water!

## Other Teacher Resources:

- <http://www3.epa.gov/watersense/kids>
- [http://www.epa.gov/safewater/kids/teachers\\_k-3.html](http://www.epa.gov/safewater/kids/teachers_k-3.html)
- <http://water.usgs.gov/edu/>
- <http://marinedebris.noaa.gov/>

## Write To Us

We love to hear from students! With your class, write us a letter letting us know what you thought of the play. What were your favorite parts? What surprised you? How are you going to make an effort to conserve water in Hawaii?

Draw a picture of the HTY play and the journey of:

A molecule of water as it changes form, Water as it goes from rain on the mountain to our homes,  
An o'opu fish from an egg to an adult, A plastic water bottle that gets washed into the ocean

