



WAVEMAKER CURRICULUM

DRINK LOCAL DRINK TAP (DLDT) is a not-for-profit organization improving water equity locally and globally. We do this through creative education, community engagement, and providing safe water access to people in need.

The lesson plans we've developed highlight our core mission by:

- Inspiring action through educational projects and programs.
- Activating you and your community by volunteering, fundraising, and hosting/participating in water-focused events.
- Showing work with Ugandans to build safe, sustainable water sources in rural communities and refugee settlements.

WELCOME TO OUR CLIMATE CHANGE AND WATER UNIT!

This unit focuses on students gaining an understanding about the connections between water and climate change. It emphasizes how equity issues influence current and future impacts and outcomes for humans and the planet.

WHAT'S COVERED?

The lessons in this unit:

- Explore why climate change is happening, how it impacts people and the Earth in different ways, and what can be done to adapt and mitigate to achieve a more sustainable future.
- Emphasize the importance of human choices and actions in helping to solve climate change and water security issues, both locally and globally.

Topics include: greenhouse gases, climate change, adaptation and mitigation strategies, water equity, climate justice, and how to be a changemaker.

ESSENTIAL QUESTIONS FOR THE UNIT:

What are the connections between climate change and water issues?

What effects do these issues have on humans and the Earth?

THROUGH THESE LESSONS, STUDENTS WILL UNDERSTAND:

- Science related to greenhouse gases and their connection to human-induced climate change.
- How climate change affects them, their local community, and other parts of the world.
- Climate change impacts manifest in issues such as: flooding, drought, water quality problems and climate migration.
- How adaptation and mitigation strategies can reduce climate change impacts.
- The connections between climate change issues, climate justice, water equity and institutional racism.
- The relationship between climate change and water security problems.
- How to take action to be a positive changemaker related to climate change and water issues.

THE 5 LESSONS:

THE FIVE LESSONS IN THIS UNIT CAN BE TAUGHT AS A COMPLETE SET OR INDIVIDUALLY.

The Problem with Greenhouse Gases

Students understand greenhouse gases, how they impact the climate, and humans' contribution to the advancement and impact of climate change. They do this by watching brief videos, developing a model and making a commitment to reduce their reliance on fossil fuels.

Too Much, Too Little, Too Dirty

Students learn about climate change through a brief documentary that focuses on impacts in Tanzania, create a mind map of climate change implications in different parts of the world, and consider positive local actions that can have global results.

Climate Change Where We Live

Students research and discuss how climate change and related water issues impact their own and other communities, and understand how adaptation and mitigation strategies can reduce this impact.

It's Intersectional

Students learn about the equity and justice issues connected to climate change and water, research related issues and plan for a transformed future.

Water Security + Climate Change Wavemakers

Students investigate how to make positive change in the world through brainstorming, examples, and reflecting on their own strengths. They use climate change and water security issues as a base to design a real-world project that they present to their classmates.



ABOUT THESE LESSONS:

Standards: These lessons are aligned to: Next Generation Science Standards, National Council of the Social Studies, Common Core State Standards for English Language Art and Literacy, Framework for 21st Century Learning, Climate Literacy Principles, Water Literacy Principles. See the Overview Matrix for a listing of lessons and the standards to which they are aligned ([LINK](#)).

Timing: The suggested lesson duration included in the lessons can be used as a guide for how long they should take, as each classroom is different. Depending on the size and length of each class, these lessons can be taught in one sitting or over a few days.

Content: Many of the topics in these lessons can evoke an emotional response from students. Modify the lessons as needed to ensure they are appropriate for your students. Anticipate the questions and responses these discussions and activities may elicit.

SUPPORTIVE READING BOOK LIST :

Please refer to our book list for grade level appropriate supportive reading options.