

UN's World Water Day with ENO



More info at: <https://www.enoprogramme.org>



GROUNDWATER - MAKING THE INVISIBLE VISIBLE

Environment Online ENO invites all the ENO schools around the world to participate on the UN's World water day on 22 March 2022. <https://www.worldwaterday.org> dealing with the common theme GROUNDWATER.

Groundwater is invisible, but its impact is visible everywhere. Out of sight, under our feet, groundwater is a hidden treasure that enriches our lives. Almost all of the liquid freshwater in the world is groundwater. As climate change gets worse, groundwater will become more and more critical. We need to work together to sustainably manage this precious resource. Groundwater may be out of sight, but it must not be out of mind.

INSTRUCTIONS FOR THE DAY TO ENO SCHOOLS

This year ENO offers two ideas and possible approaches for participation. Choose the one that suits your curriculum better. (For more ideas and activities for World Water Day visit [here](#))

ENO Approach 1: artistic/drama

ENO Approach 2: scientific

Prepare to present your work in the **ENO World Water Day online review event on 22 March at 13-14:30 PM (EET timezone)**. The work can be presented by the students or teacher. If you're unable to join the live event you can send your work to ENO at info@enoprogramme.org and it will be passed in the event by the hosts. You will get the link to the event after [registering](#). DL for registrations is 15 March 2022.

SHARE YOUR WORKS also in social media using hashtags **#enoprogramme #WorldWaterDay**

ENO Approach 1: artistic/drama

1. Raise awareness with discussion about the importance of groundwater.

See: <https://www.worldwaterday.org/learn>

Videos related to the subject:

https://www.youtube.com/watch?v=oNWAerr_xEE

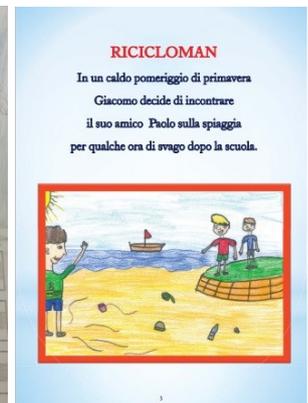
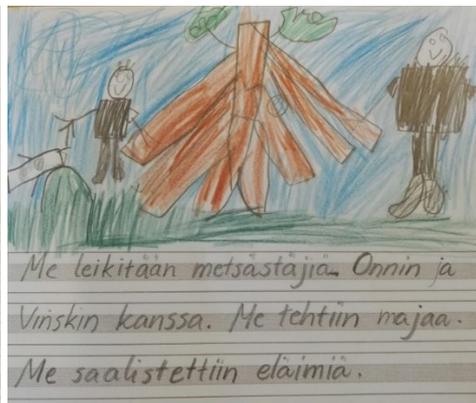
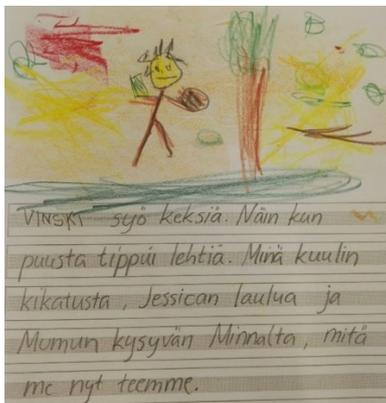
https://www.youtube.com/watch?v=0_c0ZzZfC8c

2. Write a story "Our groundwater" with students answering the following questions (see below the example story):

- What is the significance of groundwater formation to man and living nature?
- How do we get the groundwater in our country/area? How is it taken and used? Who uses it?
- What are the threats to groundwater in our country/region?
- What effects the threats are having to people, animals and land?
- How can we take better care of our groundwater?

3. Illustrate your story using one of these example methods:

- drawings made by students



See the project "["Il Ricicloman" \(in italian\)](#)" as an example

- pantomime play/dance performance with narration. See for example:

<https://www.youtube.com/watch?v=03fLrE4d1oI&t=84s>

<https://www.youtube.com/watch?v=ye1GjojQFPc>

- a puppet show or shadow play with narration

<https://www.youtube.com/watch?v=1ataamAg4X8>

<https://www.youtube.com/watch?v=-hL28SkHf1g>

AN EXAMPLE STORY FOR NARRATION (Pls modify to your needs. Be creative!)

Our groundwater

The sun attracts water to the sky invisible as water vapor. In the air, water vapor travels in the wind, until the coolness of the air condenses the water vapor to be visible into clouds. When the clouds become too heavy without support, the attraction of the earth calls the rain of water back to the surface into puddles, streams, lakes, and the sea and the groundwater as groundwater.

Groundwater is invisible, but its impact is visible everywhere. Out of sight, under our feet, groundwater is a hidden treasure that enriches our lives. Groundwater is one of the most important natural resources; we use it for drinking and it helps grow our food. Groundwater is used for irrigation and even factories need it. Groundwater is a source of recharge for lakes, rivers, and wetlands.

Almost all of the liquid freshwater in the world is groundwater. Groundwater is recharged from the surface; it may discharge from the surface naturally at springs and seeps, and can form oases or wetlands. Groundwater is also often withdrawn for agricultural, municipal, and industrial use by constructing and operating extraction wells.

Groundwater is sensitive to pollution. Farming communities that are using fertilizers have effects on groundwater. In my country, Finland, road salting is having bad effects on the quality of groundwater. The salting is used to melt the ice layer and snow on the road surface and to reduce dusting on dirt roads in summer. We must take better care of groundwater and reduce salting of roads as well as take a good care of waste waters and avoid poisons to get under the ground because groundwater is very sensitive and once it's polluted it is very hard and expensive to clean.

As climate change gets worse, groundwater will become more and more critical. We need to work together to sustainably manage this precious resource. Groundwater may be out of sight, but it must not be out of mind!

ENO Approach 2: scientific

1. Raise awareness with discussion about the importance of groundwater.

See: <https://www.worldwaterday.org/learn>

Videos related to the subject:

https://www.youtube.com/watch?v=oNWAerr_xEE

https://www.youtube.com/watch?v=0_c0ZzZfC8c

2. Exercises

2.1 Demonstrate world waters

World waters in miniature: 10l bucket is all water in the world. The water is separated in smaller units to demonstrate the amount of ice and snow, of groundwater, of freshwater in lakes, rivers & swamps and in living species. The students have to put the right answers written in tags.

See detailed instructions:

http://www.enoprogramme.org/wp-content/uploads/2021/03/Maailmat-vedet_olomuodot-oppituokio_eng.pdf

<https://www.enoprogramme.org/general/jump-on-a-vital-water/#worldwaters>



2.2 Water cleaning



See detailed instructions and video tutorials:

<https://www.enoprogramme.org/general/jump-on-a-vital-water/#waterprotection>

Tip for 2022:

You can measure the water quality before and after the sand filtering such as electrical conductivity, acidity, oxygen and other properties. How do values change?



For valuing the water quality you can use water kits such as World water monitoring challenge kit. You can order or ask for free test kits from here:

<https://www.monitorwater.org/order-kits/free-kits>

SHARE YOUR WORKS in social media using hashtags #enoprogramme #WorldWaterDay

ENO World Water Day online review event on 22 March at 13-14:30 PM (EET timezone).

Registrations during 15 March 2022 [from here >>](#)

