

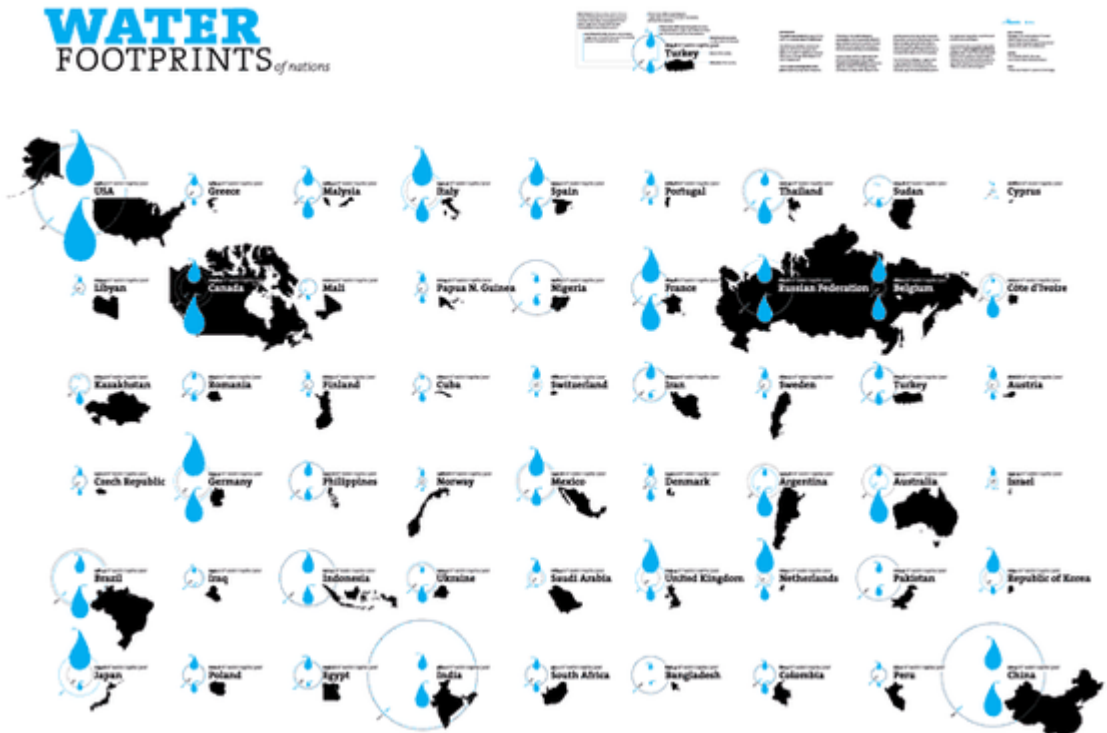
Eduglobal Quest – Responsible citizens through ‘water’ consumption

Quest title:

The water I live with

Introduction

Introduction image
URL or location:



http://virtualwater.eu/pics/poster_nations_ani_600.gif

Do you have permission to use this image?

YES / NO

As an alternative to an Introduction photo we could also create an infographic using several interesting facts. If so, insert the facts in the box below:

Introduction text - maximum 1000 characters:

World wide, fresh water is a very limited resource. The United Nations warns that water use is growing at twice the rate of population growth. Unless this trend is reversed, two-thirds of the global population will face water “stress” by 2025. In light of this, sharing water fairly and sustainably amongst so many of us is one of the greatest challenges we face in the 21st century. Yet most of those who can afford tend to keep on buying clothes, equipment, technology related materials, household items, excessive food, and various other things without really needing them or being aware of the water used to produce them. It is now the time to try to calculate one’s water footprint and investigate ways how to reduce it.

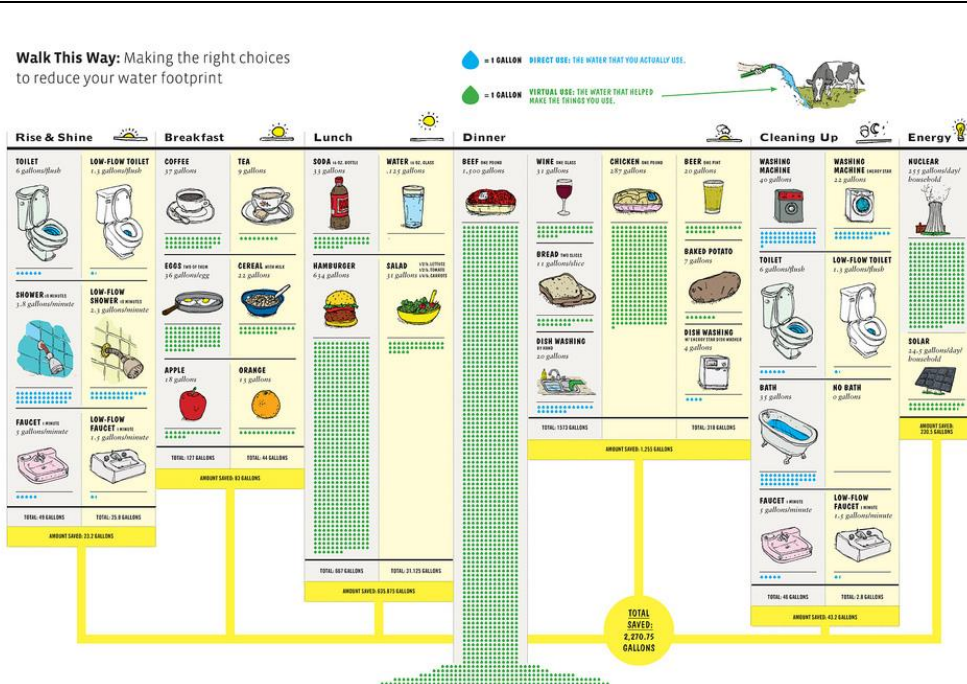
Sustainable practices encourage people to reuse items, not buy in excess and refuse using disposable items. Even the choice of food can make the water footprint vary greatly.

It is the aim of this Glocal Quest to learn about, discover and possibly adapt water footprint calculators and learn to calculate one’s water footprint to then explore ways how to reduce it and improve one’s lifestyle. Students will be asked to calculate, explore and compare the difference in water footprint between using varied items to get to the same results. This should help them understand which are the best choices to make and hence be adapted to be able to contribute to taking and encourage others to take more responsible actions in their daily routine.

Water Calculator: <https://www.watercalculator.org/?cid=1408>

Task

Task image URL or location:



<http://sciencebuzz.org/sites/default/files/images/water-footprint.jpg>

or

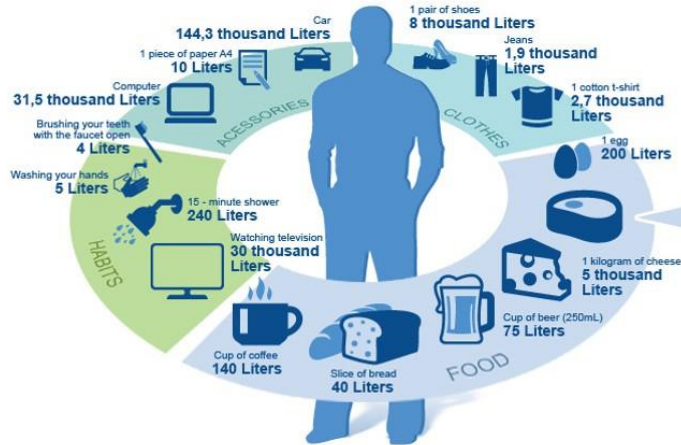
http://www.fullfootprint.org/uploads/5/8/9/3/58932587/237370_orig.jpg

This is the water footprint of a Brazilian each day. Chances are that the European Water Footprint is higher...

Each Brazilian consumes, on average
5,559 liters of water each day

This count is made by summing all the water used, directly and indirectly, in the production of goods, and also the typical daily activities

Water Footprint
Brazilian average 



Virtual Calculation of Water Used in the production of Beef.

Up until the Cattle is slaughtered (approximately 3 years), it spends on average:

1,300 kg of grains
7,200 kg of feed



3,069 million
liters of water

- + 24 mil Liters of water for drinking
- + 7 mil Liters of water for service/cleaning
- = 3,1 million liters of water used

1 kg of beef consumes
15,500 liters of water

Source: Exame.com Magazine | Superinteressante Magazine
Water Footprint Network: Water Footprint of Brazil:
2,029 million of liters per year per capita

Do we have permission to use this image?

YES / NO

Task text - maximum 1500 characters:

You will find out more about how everyday choices have an impact on the World's resources including fresh water resources.

The planet's population is increasing at a dramatic rate. Potable water, a limited resource, is already scarce or practically non-existent or unreachable in a number of regions yet water is used up, sometimes excessively in the production and processing of all items, some of which are being used only once, wasted and even disposed of irresponsibly.

Your task is to make and implement an activity plan on the reducing one's water footprint at an individual/family level and local/community level (e.g. your school).

Process

Process text – maximum 1500 characters:

Look at the diagrams/links on virtual water, daily water use table and consider the following areas:

- 1) **Personal Water Footprint** Making the water faucets and appliances we use more efficient will reduce the amount of water we consume. Identify water consuming equipment and actions at home and make a list of ways to improve them.
- 2) **Product Water Footprint**
- 3) **National Water Footprint** - <http://www.waterfootprintassessmenttool.org/national-explorer/>

Report on National Water Footprint

<https://waterfootprint.org/media/downloads/Report50-NationalWaterFootprints-Vol1.pdf>

Look at this website/document

<https://www.nationalgeographic.com/environment/freshwater/water-conservation-tips/>. List in order, most effective first, water conservation tips. List those which are possible/relevant to apply at the local level.

Make and implement an activity plan on the Rational Use of Water at an individual/family level and local/community level (e.g. your school). (INSERT EXAMPLES)

Resources (You can select up to 5 of each):

Websites (5 URLs):

1. Various types of water footprint: <https://waterfootprint.org/en/water-footprint/>
2. National footprint details: <http://www.waterfootprintassessmenttool.org/national-explorer/>
3. Calculator: <https://www.fullfootprint.org/>
4. Water Conservation Tips: <https://www.nationalgeographic.com/environment/freshwater/water-conservation-tips/>
5. Virtual water: <http://virtualwater.eu/>

Photos (x 5)

1. <http://ecosistemaurbano.org/wp-content/uploads/examples-6201.png?x87008>
- 2.

Do we have permission to use these images?	YES / NO
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Videos (x5 Embedded from YouTube, Vimeo, etc)

1. Stacey Dooley Investigates: Fashion's Dirty Secrets: https://www.youtube.com/watch?v=zOe_M3GutdY
2. JC-WISE: Water Footprint Animation: <https://www.youtube.com/watch?v=wLgXv2OfDgE>
3. .
4. .

Documents (x5 PDFs, etc to upload if not already hosted online)

1. Report on National Water Footprint <https://waterfootprint.org/media/downloads/Report50-NationalWaterFootprints-Vol1.pdf>
- 2.
3. .
4. .

Learning Objectives

Learning Outcomes: By the end of this Glocal Quest you should be able to:	Skills acquired	Competences acquired = Social skills and Activism	Knowledge and facts learned
<ul style="list-style-type: none"> • Understand what is the water footprint • Be aware how much water is used up to produce certain items • Know the difference between personal, product and national footprint... • List actions which can be taken to reduce the water footprint 	<ul style="list-style-type: none"> • Use readily available information to become informed about issues that affect us all. • Processing information/data given to get to conclusions 	<ul style="list-style-type: none"> • Make responsible use of water as citizens and as part of society 	<ul style="list-style-type: none"> • Cause-Effect circle from water consumption up to consequences, potential solutions... • Causes and consequences of irresponsible consumption

Review

5 questions designed to review progress of the learner:

1. Name three different types of water footprints
2. Organize the following items in order starting from the item which is most water consuming: apple, T shirt, burger, jeans, coffee.
3. Name 5 basic actions that reduce water consumption at home.

4. Name 5 actions that reduce water consumption through changes in lifestyle/habits.
5. .

NOTES:

- It is possible to do this in school as well as at home/community level.
- It could be expanded to inform the whole School and surrounding community.
- Possibility to address the local authorities plans for water consumption and reduction. Or ask to distribute information leaflets or show adverts/animations.