

Presented by





Water Works

Students will calculate the amount of water they use and determine ways to reduce it.



Learning outcomes

By the end of this activity, students:

- ✓ will have determined and discussed their daily water use
- ✓ will have identified strategies and initiatives for reducing water use
- ✓ will have worked to reduce their daily water use

There is only **ONE** option for this challenge.

Please complete the challenge to determine how many litres (L) of water you can save.

Important

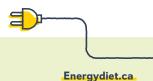
Please respect all school and governmental guidelines and restrictions surrounding COVID-19. Review the 2022 CEDC COVID-19 policy <u>here</u>. This challenge does NOT require students to participate in an in-person event.













Activity: Calculate how many litres of water you use

Students will calculate the amount of water they use and determine ways to reduce it.

Materials

Computers for research, Water Works worksheet (attached).

Proof to be submitted

Total number of litres saved (submitted through the online form), copy of completed worksheet (attached).

Activity

As a class, brainstorm different ways people use water (directly and indirectly). Lead a class discussion about water issues that exist in our society and why water is a precious resource.

Explain to students that they are going to calculate their water use for one day. Distribute the Water Works worksheet (attached) and instruct students to complete the first half (Day 1) of the worksheet. The following class period, ask them to share their total water use in groups or as a class. Calculate a class total and ask your students' to share their reactions to this number; then discuss water conservation strategies.

Have students track their water use for a second day, completing the second half (Day 2) of the Water Works worksheet. Have students share their new calculations with the class, and calculate a class total again.

Calculate your class savings by subtracting your Day 2 total from your Day 1 total. Enter the answer in the online form as your proof for the challenge.

Activity extension option: Using the resources provided on the website, have students research how much water they use indirectly. Divide students into groups and give each group a different item (jeans, plastic, coffee, a hamburger, etc.). Ask students to calculate how much water is used to make their item. Share with us what you've learned about indirect water use at @Energy_Lit and @CanGeoEdu.



Teacher tip

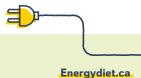
World Water Day is Tuesday, March 22, 2022. Have your students share how much water is used to produce everyday items and materials by making a virtual presentation or posters for your school.













Classroom Energy Diet Challenge

Water vi	OIKS			
	1	Name		
Worksheet - Day 1	1	Date		
This worksheet is for offline tracking in order to receive credit.	ng only. You must complete the onlir	ne form		
Average water consumption for dai	ly functions			
Flushing toilet (low flush): 6 litres	Hand washing dishes: 35 litres	Dishwasher: 40 litres		
Brushing teeth (tap off): 1 litre	Flushing toilet (old flush): 13 litres	Showering (5 minutes): 100 litres		
Brushing teeth (tap on): 10 litres	Bath: 150 litres			
Cooking: 20 litres	1 load of laundry: 225 litres			
Use the following chart to track your DAY 1	B: Average water consumption	C: Number of times	D: Total litres	
A: Water function	(see table above)	used in one day	(B x C)	
	T otal litres	of water used on D	eay1:	
	/\\	25		

Energydiet.ca



Name		
Date		

Worksheet - Day 2

This worksheet is for offline tracking only. You must complete the online form in order to receive credit.

DAY 2

A: Water function	(see table above)	used in one day	(B x C)	

Total litres of water used on Day 2:_____

Day 1 total - Day 2 total = TOTAL WATER SAVED







An example from previous years of how this challenge can be completed:

The Gillis Green Team used books to help learn about water as they completed this challenge. Students completed their sheets over March Break, and World Water Day was the date for when students' sheets were due.













