

Water Forums 2017/2018

Irish Water & Green-Schools

Water is the third theme of the Green-Schools programme and is sponsored by **Irish Water**.

Poster Competition: 'Water and your Environment' Deadline [Friday the 2nd of March](#)

The Irish Water Green-Schools of the Year Award will recognise innovation and creativity among schools that are applying for the An Taisce Green Flag for Water in the 2017/2018 academic year.

Green-Schools Ambassador Programme for secondary schools [Friday 13th of October](#)

For more information visit www.water.ie and keep an eye on www.greenschoolsireland.org for upcoming events and competitions.



2016/2017 In Review



WHAT OUR SCHOOLS SAVED



2,100 tonnes of waste diverted from landfill



6.8 Million units of electricity and 2.4 Million litres of oil saved



460 million litres of water saved

These, combined with savings on travel fuel, equate to a reduction in emissions of 350Kt of Carbon Dioxide, 5Kt of Methane and 65 tonnes of Carbon Monoxide

ACTING LOCALLY, THINKING GLOBALLY



We launched our newest theme

- Global Citizenship Marine Environment
- 370 students attended our first national Marine Environment Conference in December 2016



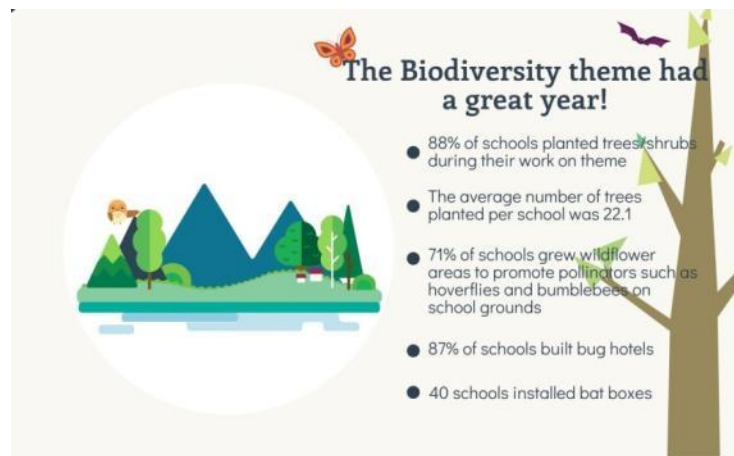
More people walked, cycled and scooted to school

- 28% walked on National WOW Day '17
- Green-Schools Travel supported cycle training for over 4,000 students
- We celebrated School to School Week for the third time!



Global Citizenship schools kept saving

- Global Citizenship Litter & Waste and Energy themes
- 13% further reduction in energy use
- Reduced their waste to landfill by further 38%



WE'RE NOT STOPPING THERE



Green-Schools Expo 2018

- The Expo is back on Thursday, February 22, 2018
- Visit our website for FREE tickets



Teacher Training for Climate Action

- Dedicated training with our Climate Action Officers
- New Ambassador Programme - climateambassador.ie

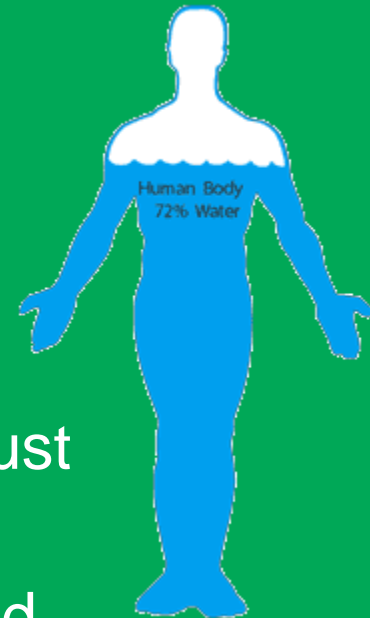


And so much more!

- Water Forums and Water Ambassador Training coming soon
- Stay informed via our website!

Keep up to date with Green-Schools sign up to your monthly newsletter at www.greenschoolsireland.org

Why care about water?



- A very important resource?
- Essential to all forms of life
- Water shortages and contaminated supply is not just confined to Third World Countries
- It is projected that by 2025 almost 50% of the world population will struggle to meet their basic needs.
(UNESCO-IHE Institute for Water Education, Delft, Holland)
- Water COSTS MONEY!

WATER IN THE WORLD



Salt water

%

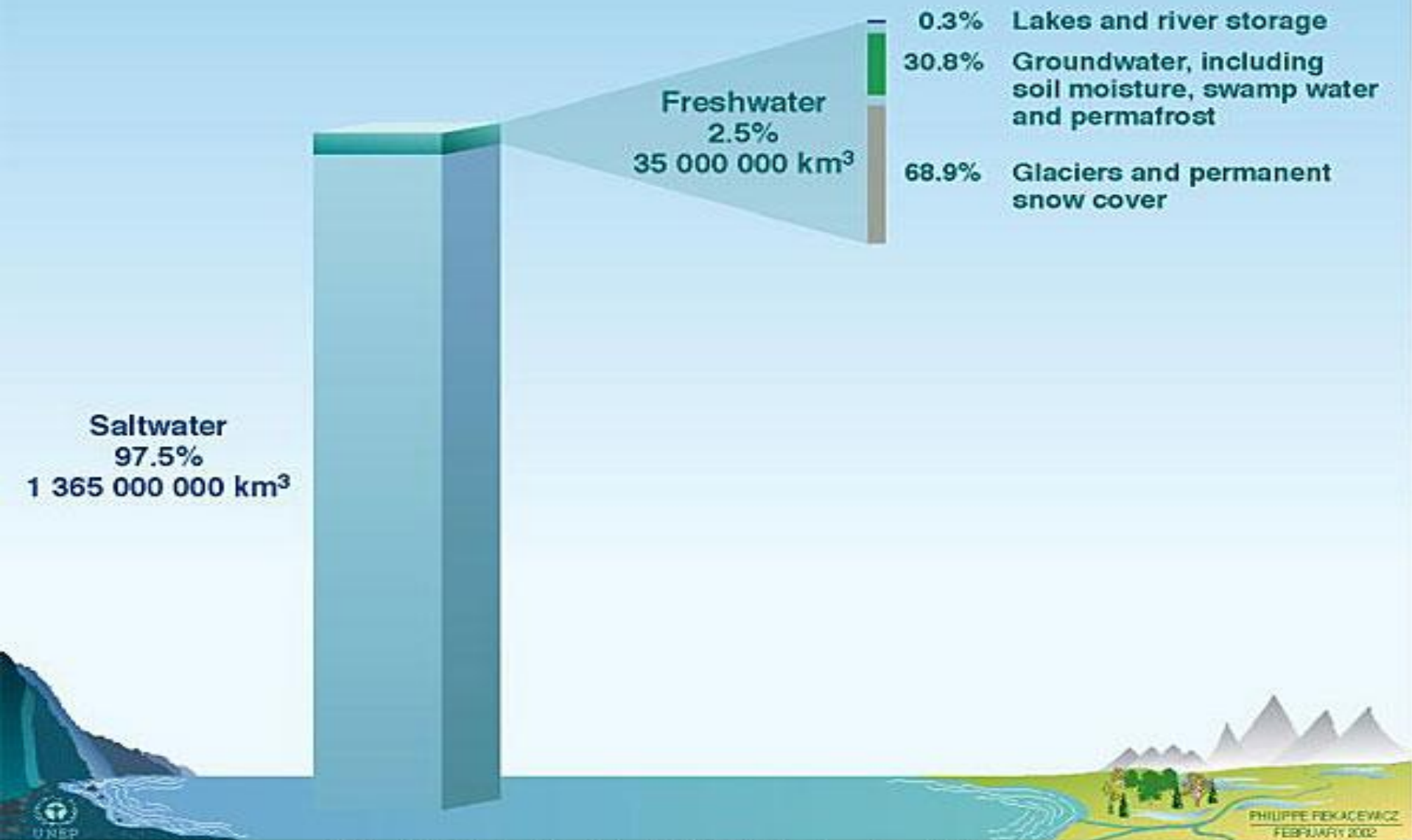
Fresh Water

%



A World of Salt

Total Global Saltwater and Freshwater Estimates

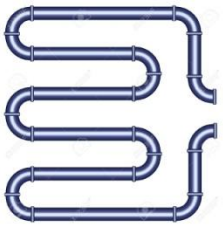


Source: Igor A. Shiklomanov, State Hydrological Institute (SHI, St. Petersburg) and United Nations Educational, Scientific and Cultural Organisation (UNESCO, Paris), 1999.

Rain Cloud



Did you know? A dripping tap at rate of one drip per second can waste 10,000 litres of water a year!!



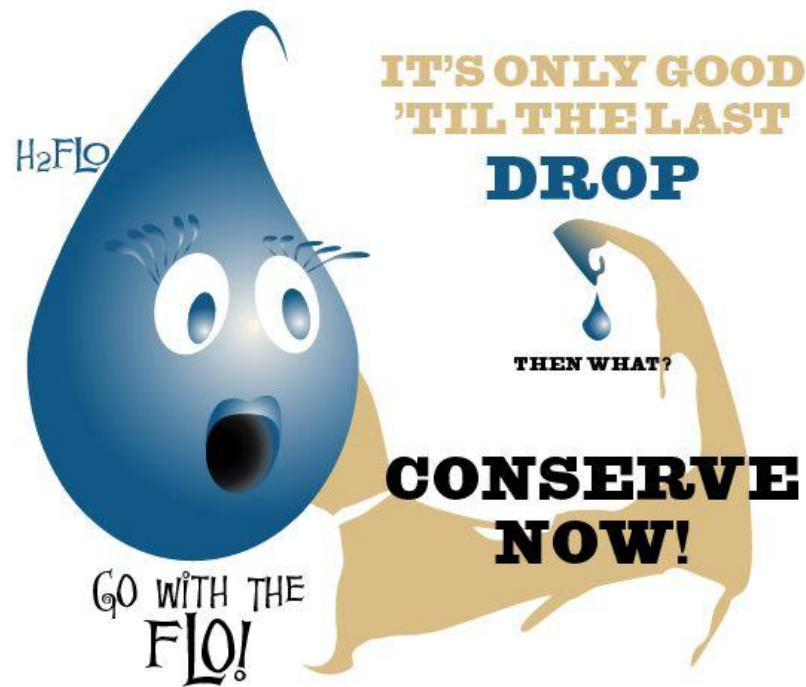
The journey of a water drop

Model Water School



Design Your Perfect Water School

As a group think about what water saving measures you could put in place in a perfect school!



Water Experiments



Stop for Break!



Irish Water Speaker



Information Hunt



Are you ready to play the 4 Good Ideas Challenge?

Your Mission



Choose a **creature that lives in or on Water**

Act like that creature on the way to choose an **Action Card**

Travel back to your team and decide what the Action means

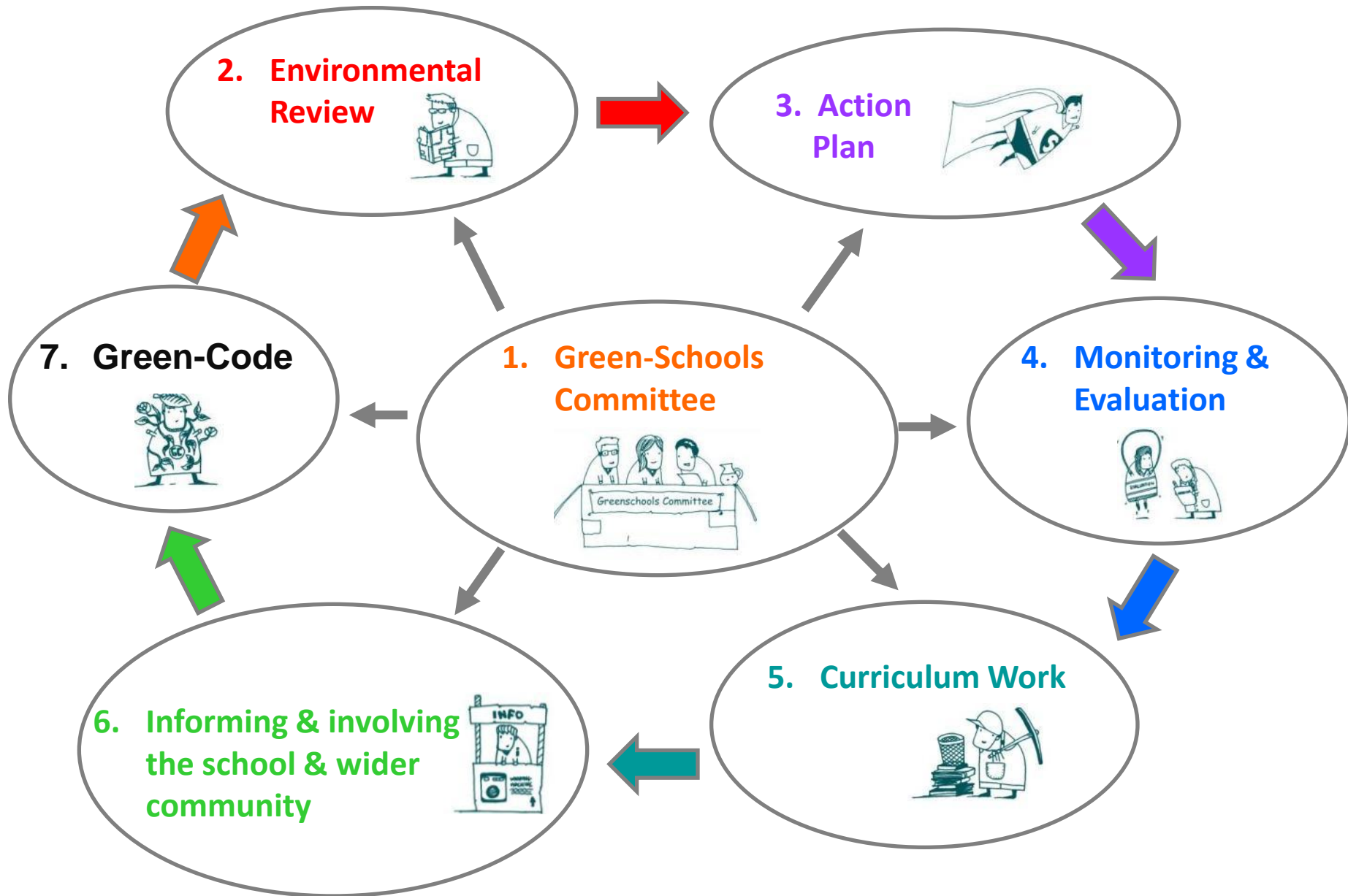
Earn **10 points** for the best creature

Earn **5 points** for the best explanation of your Action Card

The 7 Steps!!!



Seven Steps



Step 2. Environmental Review

Water Usage



Sample Review of Water Usage

	Start date for period over which consumption was calculated	Finish date for period over which consumption was calculated	Number of school days in this period	Amount of water used in Litres	Average number of litres used per person per day	How did you measure your water consumption
Year 1 (review)	23rd Jan 2012	27th Jan 2012	5	8785 litres	34.45 litres	estimation, measuring handwashing water usage, toilet flushes and other water usage activities
Year 2 (latest Figures)	28th Jan 2013	1st Feb 2013	5	4645 litres	18.22 litres	measuring/ estimating/ timing / -newly installed N.B Water Meter indicates that we have used 19642 litres of water in past 7 weeks up to 22/03/13 but we think this does not include Prefab classroom'-this will be further explored by engineers

How to read the meter

- Situated outside the boundary wall of your school under a cover marked 'WATER'.
- Check the ID number on the meter and compare it to the number on your bill
- If you are having trouble finding the meter, contact your Local Authority



Reading a meter

Locate and read the school's water meter

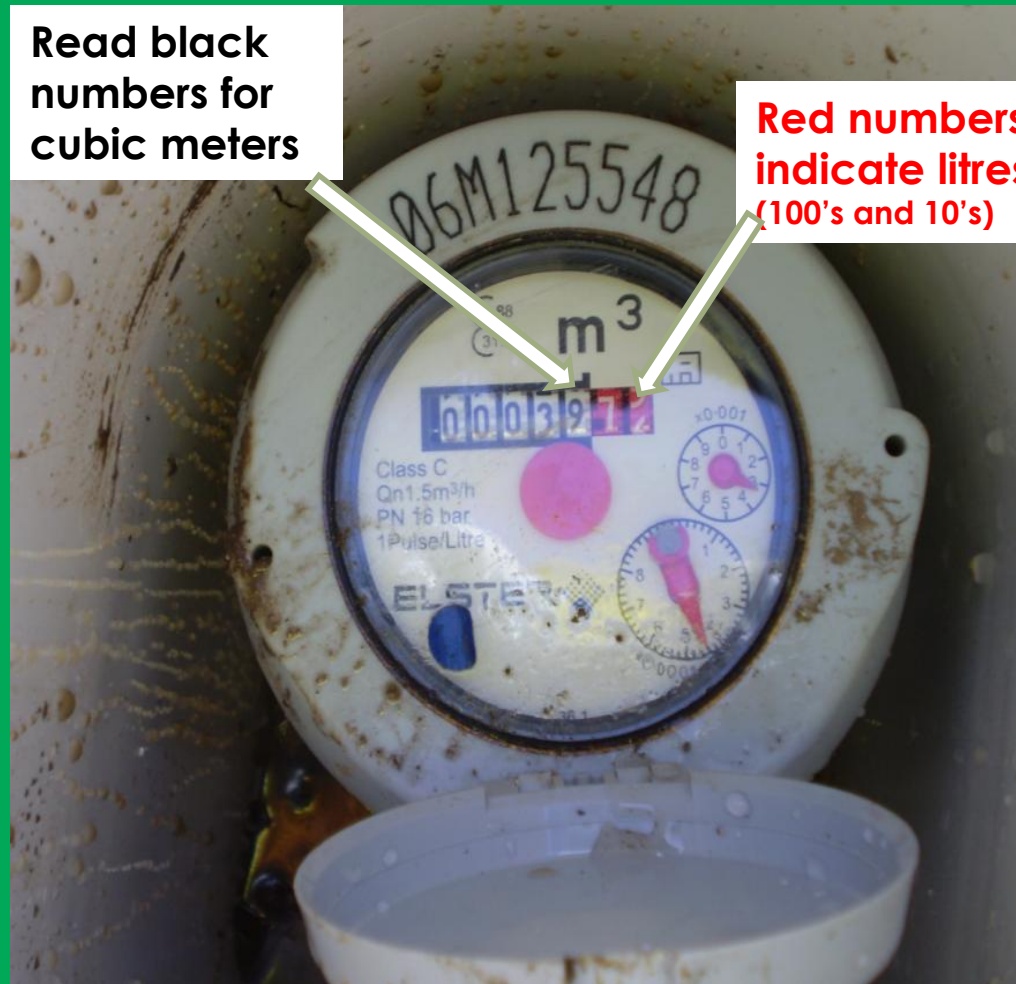
Irish meter readings are in cubic meters (x 1000 for litres)

Record the water usage on a daily/weekly basis and plot on a graph

Reading the meter when there is no water usage indicates a leak

Read black numbers for cubic meters

Red numbers indicate litres (100's and 10's)



TEST

BLACK DIGITS are
Metres Cubed
RED DIGITS
are Litres
(sometimes Water
metres include a third
Red digit , this is the
ones and sometimes
this is a dial)

NB: Also there may be a
dial for millilitres.

Afternoon	0	0	1	3	9	8	8
Morning	0	0	1	2	7	2	5
Water Use (-)							



TEST

**12 metres Cubed
and 630 Litres**

OR

12,630L

Afternoon	0	0	1	3	9	8	8
Morning	0	0	1	2	7	2	5
Water Use (-)				1	2	6	3

WELL DONE!

Where is H₂O used in Your School ?



Toilets ~ **60%**

Sinks

Dishwasher

Cleaning

Gardens

Laboratories

Taps

Kitchens/staffrooms

Radiators

Home Econ/W'work

Showers

Washing

Swimming Pool

Water Audit



School Water Audit

Taps	Hot	Cold	Push	Screen on/off
<div>Sinks</div>	Prefab: 1 Junior R: 3 Senior R: 3 S.R.: 1 T.T.: 1	5 3 3 1 1	2 4 4 - 2	4 2 2 2 -
Toilets	Total: 2 + 2 + 2 + 1 = 7			

Water Hippos fitted: 6

Radiators: 3 + 3 + 1 + 2 + 1 + 1 = 11

Cylinders/Tanks	Water Butt	Outside tap
hot: 1 cold: 2	1	1

Sample Water Audit



Dispatch your crew!

A full review of water consumption throughout the school was carried out. Both day and boarding school areas were examined. The total number of 'water-consuming' devices were counted in each area.

The following outlines the survey carried out of the **main school**:

Facilities	Total
Boys Toilets	19
Girls Toilets	18
Taps	41
Washing machines	7
Kettles	6
Showers (tog -out area)	7
Dishwasher	1
Total	99

The **boarding school** area was also examined:

Facilities	Girl's Dorm	Boy's Dorm	Kitchen	Total
Sinks	13	14	5	32
Taps			3	3
Toilets	11	13		24
Showers	8	9	17	
Baths	1	1		2
Washing Machines			2	2
Dryers			2	2
Total				82

Total				83
Toilets			5	5

Leak Tests (Small and Big)



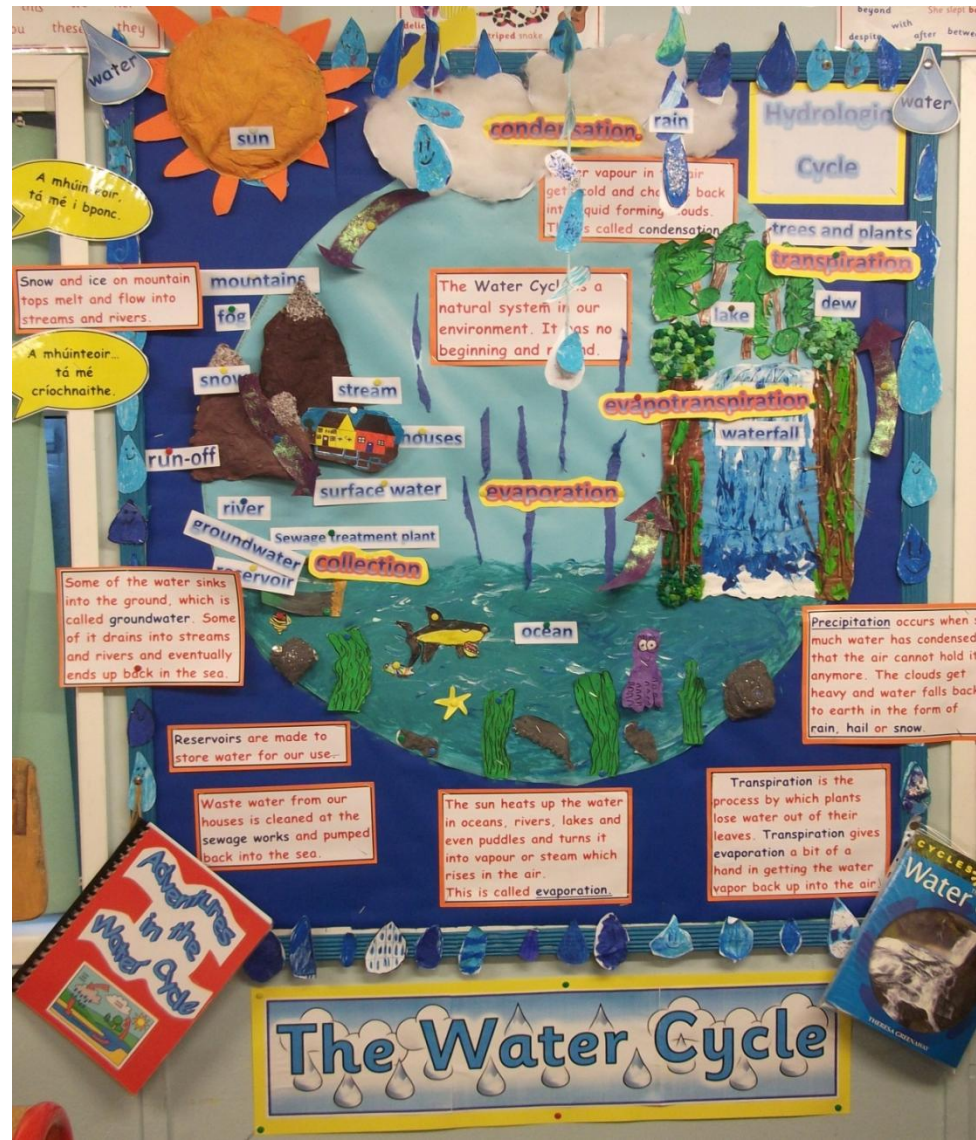
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Behavioural Survey

Home water survey

1. **Showers.** How many showers does your family take in a week? About how long is each shower?
2. **Baths.** How many baths does your family take in a week? A half-full tub is about 18 gallons, a full tub about 36 gallons.
3. **Toilet flushes.** How many times a day does your family flush the toilet? (The average is four flushes per person.)
4. **Toothbrushing.** Most family members brush their teeth twice a day for about two minutes each time. Leaving the faucet on while brushing wastes a lot of water. How often does your family brush?
5. **Hand dishwashing.** How many times a day does your family wash dishes? About how long does the water run each time?
6. **Dishwasher.** How many times a week does your family run the dishwasher? Answer only if you have one.
7. **Laundry.** How many loads of laundry does your family do each week? Answer only if you have a washing machine.

Investigate the Lifecycle of Water in the School



Identify local water sources

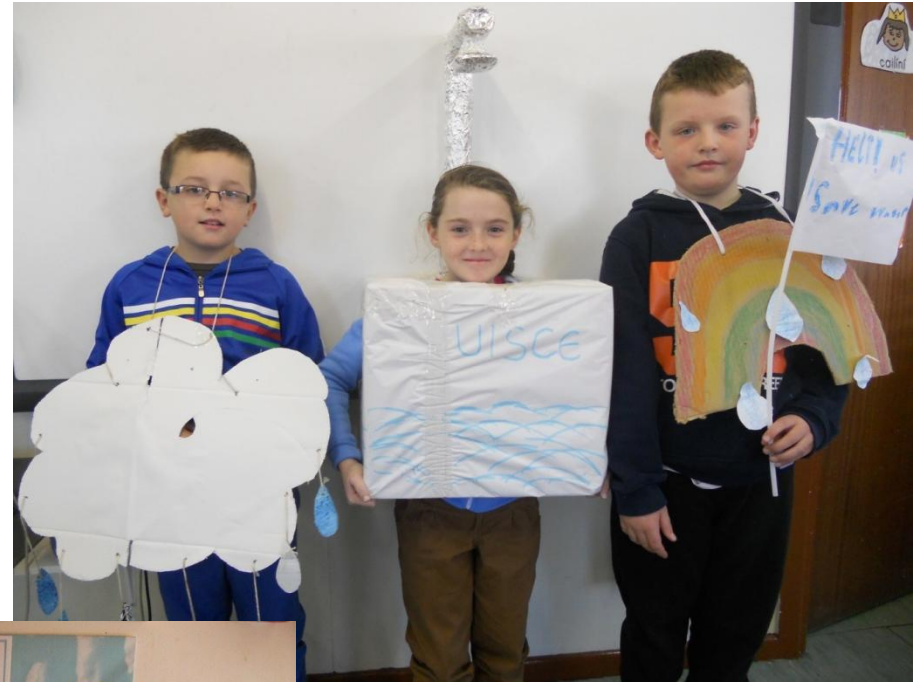


Step 3. DO IT – Action Plan

Turn it Off Days



Blue Days



Clean Up a Water Course Day



Water Raffle (Prize)



Parades



Walk for Water Day



Walk for Water:

- Download our info graphic which has some tips on how to host an event - in [pdf](#) and in [image](#) form, from www.greenschoolsireland.org/water/walking-for-water
- Visit the UN World Water Day 2016 [materials section](#) for downloadable resources, focused on the theme of Water & Sustainable Development. www.unwater.org/worldwaterday/
- Download lesson materials for your class from the Walking for Water website www.walkingforwater.eu/
- View Green-Schools' own water resources page



Walking for Water

A guide to hosting your own event

Join Green-Schools and schools across Ireland and Walk for Water this March. Raise awareness of water scarcity and show solidarity with children worldwide by walking six kilometers, carrying six litres of water.

Why Walk for Water?

Safe drinking water and basic sanitation should be accessible to everyone. Women and children in countries around the world walk on average six km a day to access water which is often unclear or simply not there due to drought or abstraction. By Walking for Water you can fundraise for water projects and raise awareness.

Register!
Email greenschools@antaisce.org and let us know you're holding an event.

1. Select participants (nobody under 10 for 6km walk and lots of supervisors!)

2. Pick your route - do a test walk beforehand!

3. Pick a date! World Water Day is March 22nd

4. Consider fundraising: for your school or a charity of your choice

5. Promote your walk! Use your Notice-Board, assemblies and local media

6. ENJOY! Visit our website for more information

Tips for a successful event

Older children (10+) should be able to walk six kilometers with six litres of water but you may wish to adjust the volume and distance for younger participants. Don't forget that this is a daily reality for women and children across the world!

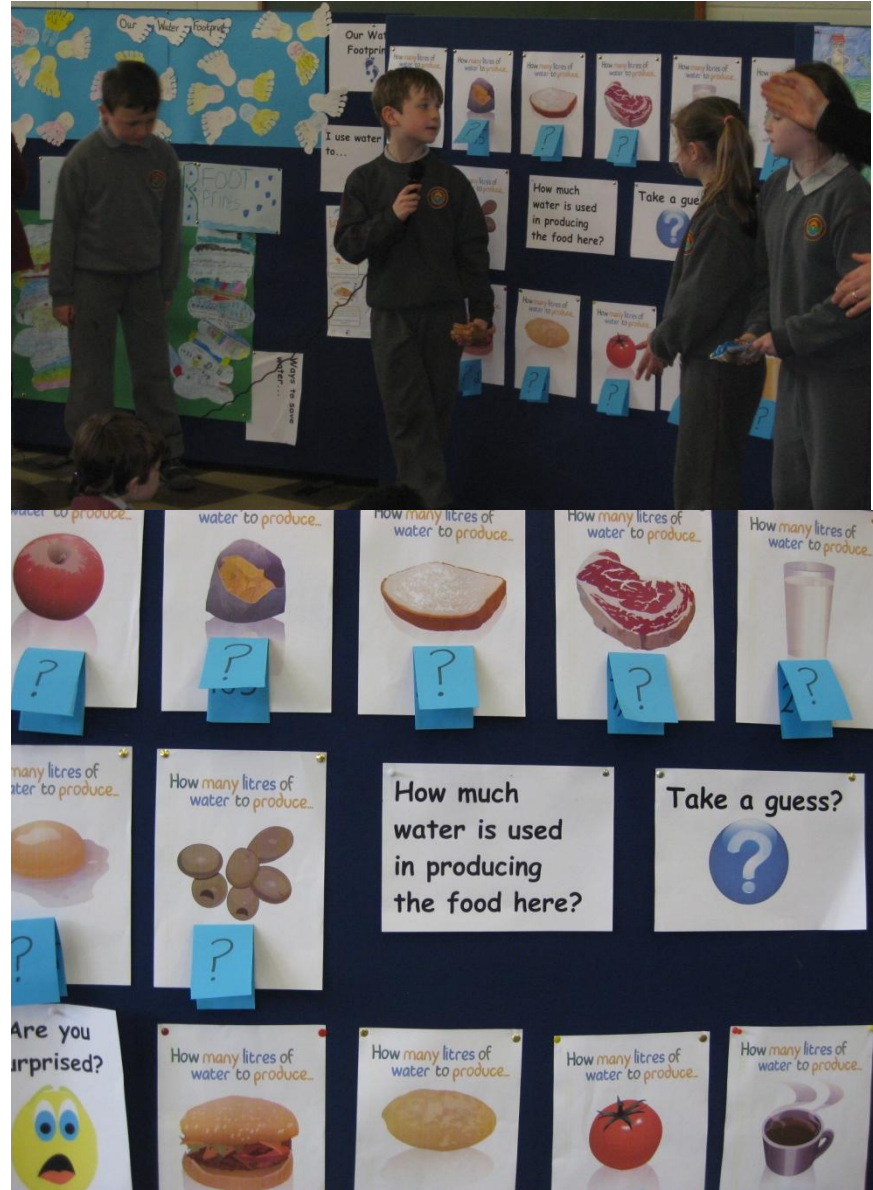
Find a list of projects you could fundraise for at <http://tinyurl.com/o2d2535>

What you'll get:
Increased awareness
Solidarity with children across the world
Funds raised for school and charities
Sense of achievement
Health benefits
Learning

People to invite:
A person with first aid training, volunteers, a local speaker, local dignitary or celebrity and local media, Gardai

For the walk:
- Choose a loop walk that is wide, safe and not too difficult
- Ensure there is somewhere safe to fill up and empty water bottles
- Consider where to have lunch along the way
- Leave No Trace!

Water Foot Print Day



What is the virtual water content of these products? Guess

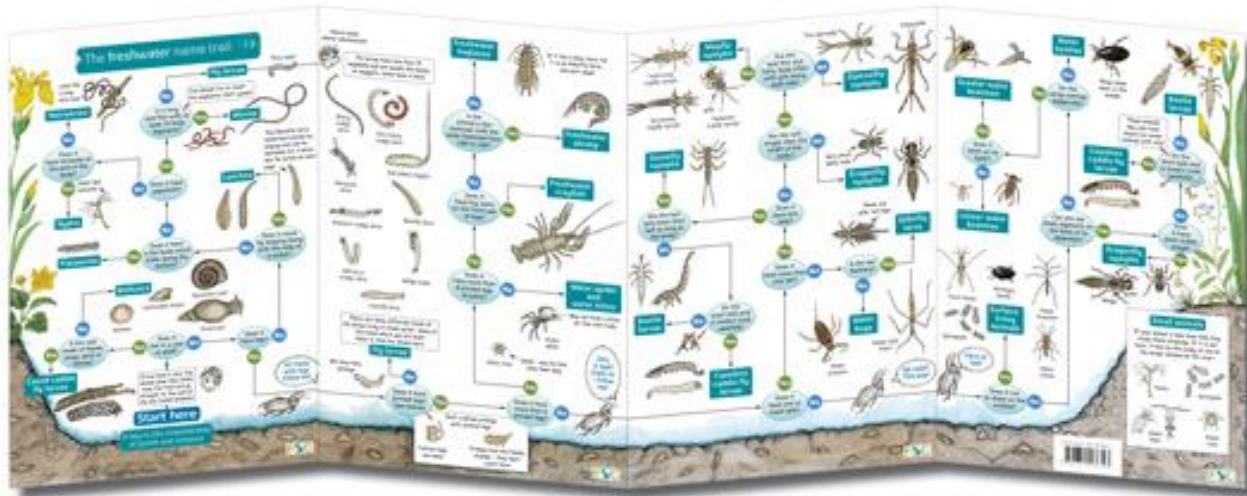


- **1 cup of coffee = 140 litres of water**
- **1 kg of beef = 16,000 litres of water**
- **1 kg of rice = 3,000 litres of water**

Water Quality Testing in Adopted Lake/River/Pond



Freshwater Name Trail



<http://www.field-studies-council.org/publications/pubs/freshwater-name-trail.aspx>

Fundraising Day Cake sale



Environmental Debates



Guest Speakers



Fancy Dress Water Days



Water Treatment Plant



Low Water Lunch



St Josephs NS Dromore
(Based on traditional Native American tradition)



Eco Friendly Beauty Finds



Eco-friendly products



Step 4.
Check it works
(Monitoring & Evaluation)

Record Book/Water Diary

13 th January	20 th January	23 rd March	30 th March
27 th January	3 rd February	20 th April	27 th April
10 th February	24 th February	4 th May	11 th May
2 nd March	9 th March	18 th May	25 th May

well done!

very well done!!



Leak Detectives/Water Warriors



Water Use Survey (repeat)



Behaviour Survey (repeat)

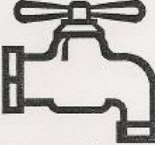
Jack

Water survey for your home

Go through the questions below to see how water is used in your home.

1. How many sinks in your home? 3
2. Count the number of toilets in your home. 2
- 3(a) Do they have a dual flusher? ☒ YES ☐ NO
- 3(b) Do you know how much water is held in the cisterns of your toilets? YES ☒ NO
4. How many times a week do you use the washing machine? 3 times
5. Do you have a dishwasher? ☒ YES ☐ NO
6. If you have how often do you turn it on? 7 times a week
7. Do you use the shower or bath more regularly? ☒ SHOWER ☐ BATH
8. Do you have any leaks in your taps/ pipes? YES ☒ NO
9. Do you leave the water running when brushing your teeth? YES ☒ NO
10. Do you have a well for your water supply? YES ☒ NO
11. How many litres of water do you think a person uses daily? ☒ 50L ☐ 100L ☐ 150L

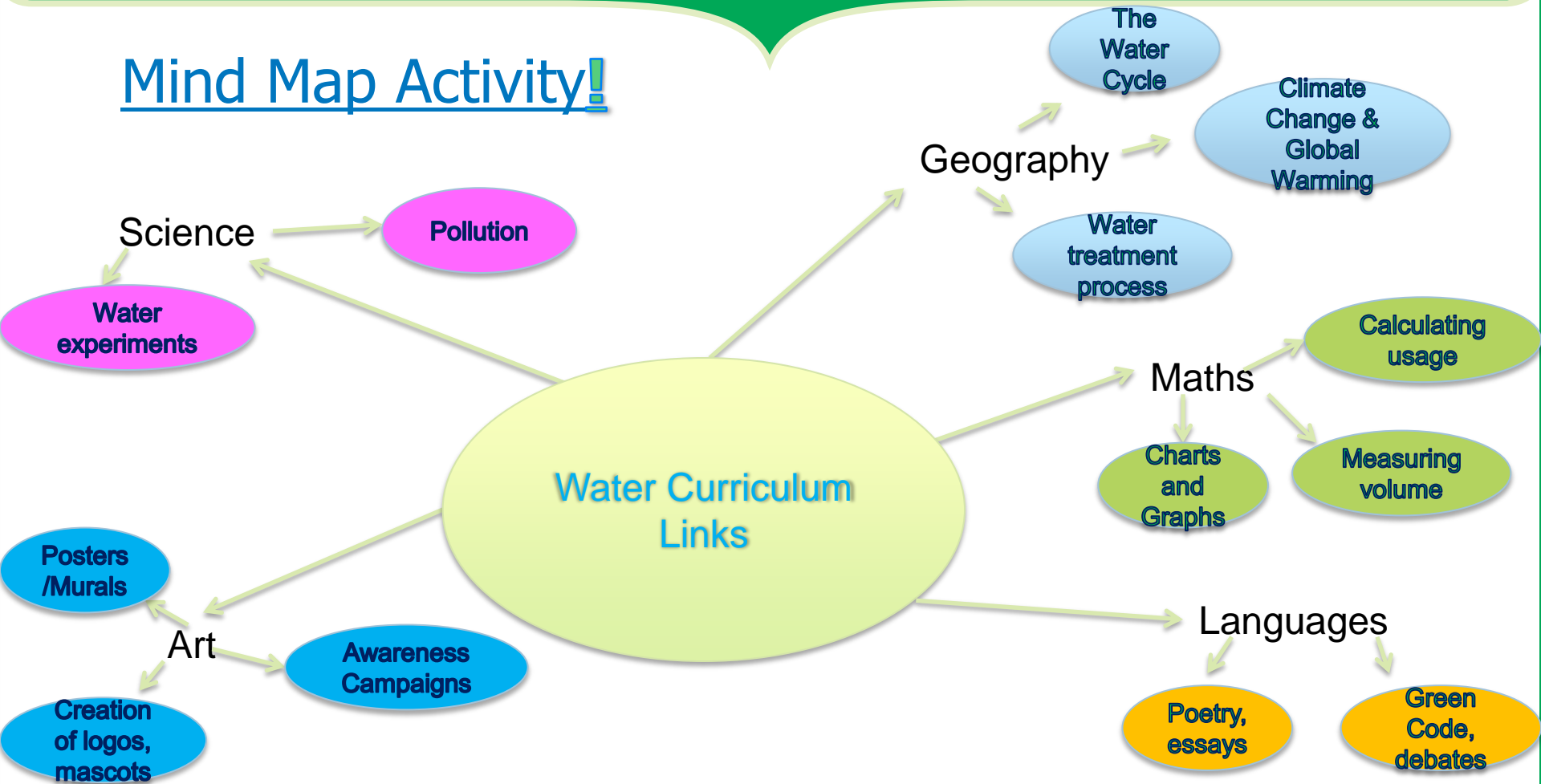
Look at what you found from the list above. Can you think of any ways that water can be used more wisely or saved in your home?



Please return this to school before Friday the 10th of February!

Step 5. Curriculum links

Mind Map Activity!



NB: Print Q9 on the application form and put up in each class in order to keep track of the curriculum links (see handout for further details/handbook/water resource)

Step 5: Curriculum Links

9. Please give the ages/school years of students involved in curriculum work and information on the topic or subject areas addressed:

Subject	Class Group	Environmental Issue Covered



Step 6.
Let Everyone Know
(Informing & Involving)


Art Competition



Website or Blog

ralet.scoilnet.ie/blog/school-committees/green-school/

Green-Schools Schools School 2012 Other Work Unsorted Bookmarks Todoist James Hardiman Lib... Blackboard Learn Login | MailChimp



Home About Archive Photos Calendar Classes Classroom News Contact Us Gallery Newsletters Parents

RaLET iPhone Web App School Activities School Committees

Green School

THE COUNT DOWN IS ON!

DAY OF ACTION – FEBRUARY TENTH!

In a few days time, we will be holding our travel and transport day of action. We'll be kicking the day off with a "whole school wake'n'shake" in the school playground. Parents – feel free to join in with all the children and staff as we wake ourselves up for the day!

There are lots of different activities happening throughout the day. The infants will be working on a travel art project, first and second will be doing a workshop with Sandra from An Taisce and also participating in a game of "Who Wants to be a **GREEN** Millionaire?" 3rd – 6th Class will be debating a very interesting and important topic: "Do children have a responsibility to be green?" There will also be a 'Green Travel' display in the school hall on various projects the children have completed at home, as well as some of the work we have been working on over the past few weeks in school. It will be there for a couple of days, so please take advantage of it and drop in to check out our fabulous work!

We are hoping that parents will participate in the Day of Action with us-

Recent Posts

- RaLET's Got Talent 2012
- Christmas Holidays
- Halloween Fun Walk
- Green Flag Ceremony
- Bicycle Safety Classes

Archives

- January 2013
- December 2012
- October 2012
- September 2012
- May 2012
- March 2012
- February 2012
- January 2012
- November 2011
- October 2011
- September 2011
- June 2011
- May 2011
- March 2011
- February 2011
- January 2011
- December 2010
- November 2010

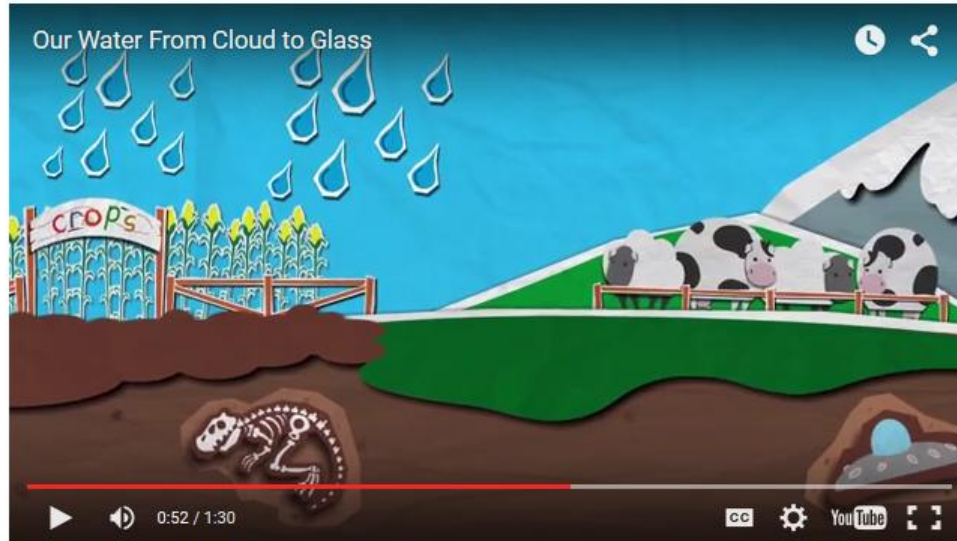
Meta

- Log in

The display board is a vibrant collage of water conservation information. At the top, a large white water drop shape contains the title 'School Conservation'. To the left, a poster explains that a hot tap uses 100 litres of water per hour, comparing it to a bucket. Below this, a drawing shows a person taking a shower. In the center, a green poster lists 'Garden Conservation Tips' with illustrations of a watering can and a hose. To the right, a poster titled 'How much water do you turn on when you brush your teeth?' features a drawing of a toothbrush. Below this, a poster states 'A shower uses 35 litres.' and another says 'Laundry uses 40 litres.' The board is also decorated with various other posters, including one about 'Tap Run' and another about 'Water Wasters'. The girls are smiling and pointing at the board, clearly proud of their work.



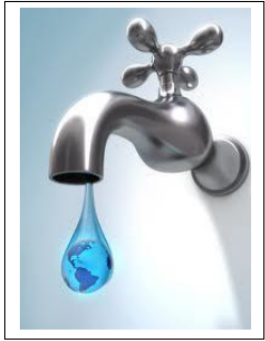
Video Clips



<http://www.greenschoolsireland.org/resources/water.215.html>



Big Beautiful Banners/Signs



***Splish Splash
Stop and think***

***The water you're wasting
Is going down the sink***



Household Survey (families)

Home water survey

1. **Showers.** How many showers does your family take in a week? About how long is each shower?

2. **Baths.** How many baths does your family take in a week? A half-full tub is about 18 gallons, a full tub about 36 gallons.

3. **Toilet flushes.** How many times a day does your family flush the toilet? (The average is four flushes per person.)

4. **Toothbrushing.** Most family members brush their teeth twice a day for about two minutes each time. Leaving the faucet on while brushing wastes a lot of water. How often does your family brush?

5. **Hand dishwashing.** How many times a day does your family wash dishes? About how long does the water run each time?

6. **Dishwasher.** How many times a week does your family run the dishwasher? Answer only if you have one.

7. **Laundry.** How many loads of laundry does your family do each week? Answer only if you have a washing machine.

8. **Other indoor uses.** Your family also uses water indoors in other ways. List some of these:

_____	_____
_____	_____
_____	_____
_____	_____

9. **Lawn watering.** How many times a week does your family water the lawn? About how many minutes do you water each time?

10. **Other outdoor uses.** Your family may use water outdoors in other ways. List some of these:

_____	_____
_____	_____
_____	_____
_____	_____



Be a journalist for your school



Water Tips

For more water saving tips visit www.gov.bc.ca

Water...
Use it
Wisely



In the Kitchen

- 1 Instead of running the tap, keep a jug of cool water in the fridge.
- 2 Turn off the tap and wash your fruit in a bucket. Use the water around your garden.



3

Turn off the garbage disposal and save water. Compost your kitchen scraps.

For more water saving tips visit www.gov.bc.ca

Water...
Use it
Wisely

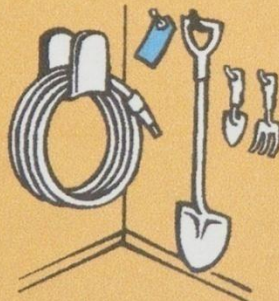


Around the Garden

- 1 Long grass helps shade its roots. Mow less often and you'll save water.
- 2 Don't water when it's windy. Wind can blow sprinklers off target and speed up evaporation.

3

Put an empty tuna can on your lawn. When it's full, you'll know you've watered enough.



For more water saving tips visit www.gov.bc.ca

Water...
Use it
Wisely



In the Bathroom

- 1 Turn off the tap when you brush your teeth or shave.
- 2 Take shorter showers. Save 19 litres every minute.
- 3 Use food colouring to check your toilet for leaks. Save up to 300 litres a week.



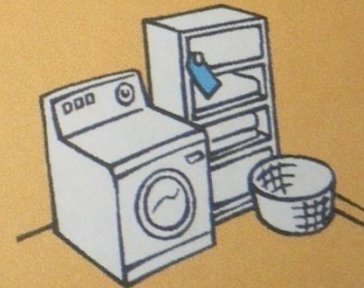
For more water saving tips visit www.gov.bc.ca

Water...
Use it
Wisely



In the Laundry Room

- 1 Watch for dripping taps! Change tap washers and save up to 300 litres a week.
- 2 Instead of running water, use a bucket or pail for household cleaning.
- 3 Make sure your washing machine is loaded full. Every load uses up to 190 litres.



Sponsor Well (Trocaire/Conern)



Step 7: Green Code/Mascot

Rahan National School, Cork.

Water Rap:

*Turn off the shower, You're wasting power,
Turn off the shower, You don't need an hour.
Turn off the hose, You're wasting loads,
Turn off the tap. This is our rap!*



Blackrock College Committee

***W**ait until night to water your lawn*

***A**lways use a pail when you wash your car*

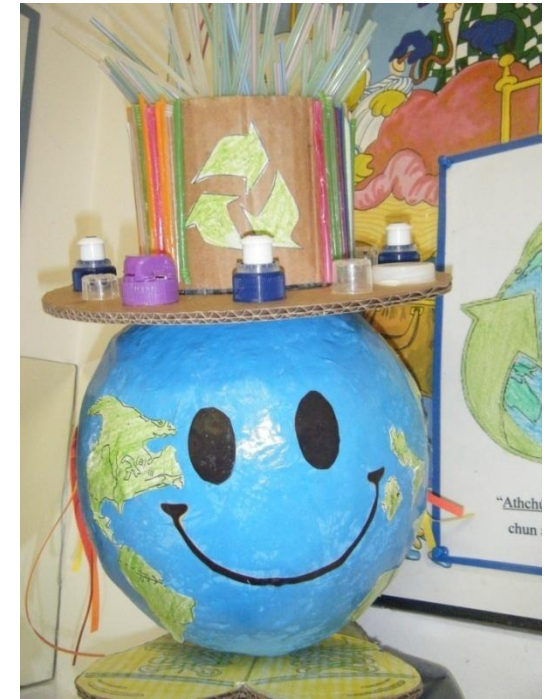
***T**urn off the faucet when you brush*

***E**very leak wastes water - fix it*

***R**ain barrels save water*

Náionra Slogan:

*"The world is now happy again
because we are now kind to it"*



Blue Flag/Green Coast certificate for schools

Aim to inc. awareness amongst young people and the wider community

A school is eligible if they

- Undertake a research project about a BF/ GCA beach
- Carry out an activity on a BF/ GCA beach that demonstrates the school's commitment to improving the environment



Get in touch

www.blueflagireland.org

www.cleancoastsireland.org

Possible projects

- Sand Dune Erosion
- Flora & Fauna
- Health & Safety at the Beach
- The role of your BF/ GCA beach in the community



Possible activities

- Beach scavenger hunt
- Beach Clean Up
- Awareness Campaign (litter/dog foul/graffiti)
- Habitat Survey of the Beach



Idea for Day of Action

Clean Coast Event

- Register your school as a Clean Coast group
- Organise a beach clean up
 - Protect habitats & wildlife
 - Raise awareness



Exciting News... new Green-Schools Website !

[Home](#)[About](#)[Themes](#)[Resources](#)[Events](#)[News](#)[Apply](#)

Working together for a sustainable future

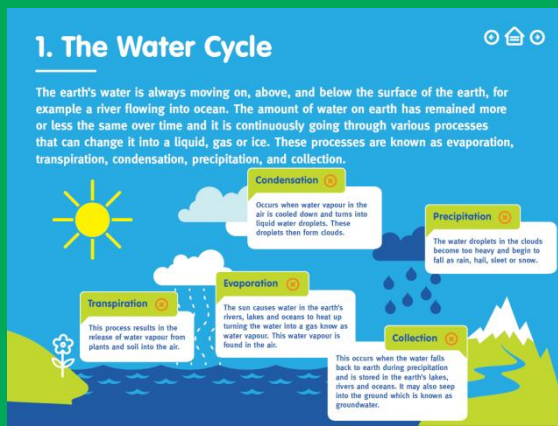
Green-Schools is Ireland's leading environmental management and award programme, working with primary and secondary schools across the country

[Learn More](#)

Activities from Water Resource

- **Interactive Water Resource for Primary and Secondary Schools**
- The resource looks at:
 - The Water Cycle
 - Journey of a Water Drop
 - Water Conservation
 - Climate Change
 - Water People
- There are lesson plans for each topic. The resource can be found on our website

<http://www.greenschoolsireland.org/resources/water.215.html>



***COMPLETE
YOUR***

MISSION

Put Together an Action Plan

Action	Person/Group Responsible	Timeframe	Progress Made
Establish the Green-Schools Committee	Mrs. Murphy	By the middle of September	Achieved
Establish sub-committees to maintain monitoring of Litter and Waste and Energy	Mrs. Murphy	By the middle of September	Achieved
Read water meter daily and formulate weekly and monthly graphs on Water Consumption.	Green-Schools Committee	Ongoing	
Organise a "Turn it off" campaign, with posters in both Irish and English in every classroom to remind students and teachers to turn off taps.	All Classes	September 2010	Achieved
Hold a water quiz to find out levels of awareness	All Classes	September 2010	Achieved
Form a "Water squad" (with volunteers from each class – not committee members) to ensure "turn it off" campaign is being fully implemented – Classes to be checked daily.	All Classes	Ongoing	Continuous
Conduct Leak Tests	All Classes	September 2010	Achieved

Nearly there...

- Feedback Forms
- Information sheets
- Group Photo
- Goodie Bags



THANK YOU