

Water Efficiency – Conserving Water

Welsh Water cleans over 800 million litres of water per day and pipes it to our houses for us to use. A lot of energy is used pumping water to people's homes, this can be bad for the environment. Remember, you can help can save water in many ways: taking a shower instead of a bath, watering plants with a watering can instead of a hose pipe and **TURNING OFF DRIPPING TAPS!**

The caretaker of a school is annoyed at the amount of taps he has to keep turning off around his school. He measured the amount of water in different locations for one minute in ml. Here is what he found.

Location	Problem	ml per minute
Staff room	Small leak on the hot water dispenser.	35
	1 dripping cold tap.	20
Canteen	1 cold tap trickling.	60
	1 hot tap left on.	600
Infants' girls' toilets	1 cold tap running.	500
	2 cold taps dripping.	35 per tap
Infants' boys' toilets	2 cold taps turned off.	0
	2 cold taps dripping	20 per tap
Junior girls' toilets	All cold taps turned off.	0
	1 hot tap left on.	300
Junior boys' toilets	1 cold tap dripping slowly.	15
	3 taps turned leaking.	25 per tap

Use the information below to work out how many litres of water per year the school would be wasting.
Challenge – Try $\times 60$ and $\div 1000$ without a calculator.

ml in 1 minute		ml
ml in 1 hour	$\times 60$	
Convert to litres	$\div 1000$	
Litres in 1 day	$\times 24$	
Litres in 1 week	$\times 7$	
Litres in 1 year	$\times 52$	



Staff room	_____ litres	Canteen	_____ litres
Infants' girls' toilets	_____ litres	Infants' boys' toilet	_____ litres
Junior girls' toilets	_____ litres	Junior boys' toilet	_____ litres
Total wasted in litres (round to the nearest whole number)			_____ litres