

Lesson 8

Stage 1 – Desired Results	
<p>Established Goals: 8-4-03 Compare and contrast characteristics and properties of fresh and salt water. Examples: freezing point, density, dissolved materials, global distribution, relative amounts, biologically diverse components of each... GLO: D3, D5, E1</p>	
<p>Understandings: Students will understand that... In Canada, humans use an exceptionally great amount of water.</p>	<p>Essential Question: What are the various ways humans impact water and how do they attempt to fix the water they have damaged? How do we learn about water from a sustainability focus?</p>
<p>Students will know... That they must decrease the amount of water used.</p>	<p>Students will be able to... Figure out creative ways to decrease their water consumption.</p>
Stage 2- Assessment Evidence	
<p>Performance Tasks: Completion of water chart. Completion of questions accompanying water chart.</p>	<p>Other Evidence: Plan of how to decrease individual consumption by 50%.</p>
Materials Required	
<p>Students' completed water charts New copies for each student of the water consumption chart to now decrease consumption by 50% (see BLM #2)</p>	
Stage 3 – Learning Plan	
<p>Share Water Chart results with the class – teacher to group water use amounts on board to demonstrate the range of usage in the class. Think – Pair – Share a plan on how students will decrease their water consumption by 50% in the next 7 days. Have students record in notebooks how they will achieve the goal of decreasing their water in realistic ways and make a prediction of if they think they will be able to do it or not.</p>	
Homework Learning Activities	
<p>Work on new chart to decrease consumption by 50%</p>	

Water Use Chart

Day of Week	Minutes/day times times/day	# litres	Total
Shower/bath (time it takes to fill tub)	X	20 =	
Toilet	X	12 =	
Brush teeth	X	4 (if you leave the water running) or 1 (if you turn off the water while brushing) =	
Laundry	X	200 =	
Dishwashing	X	40 (if dishwasher) or 35 (if by hand)=	
Additional drinking water (found in foods)		15 =	
Leaky plumbing		50 =	
Total			
Day of Week	Minutes /day or times/day	# litres	Total
Shower/bath	X	20 =	
Toilet	X	12 =	
Brush teeth	X	4 or 1 =	
Laundry	X	200 =	
Dishwashing	X	40 or 35 =	
Additional drinking water		15 =	
Leaky plumbing		50 =	
Total			
Day of Week	Minutes/day or times/day	# litres	Total
Shower/bath	X	20 =	
Toilet	X	12 =	
Brush teeth	X	4 or 1 =	
Laundry	X	200 =	
Dishwashing	X	40 or 35 =	
Additional drinking water		15 =	
Leaky plumbing		50 =	
Total			

Day of Week	Minutes in one day or number of times/day	# litres	Total
Shower/bath	X	20 =	
Toilet	X	12 =	
Brush teeth	X	4 = or 1 =	
Laundry	X	200 =	
Dishwashing	X	40 or 35 =	
Additional drinking water (found in foods)		15 =	
Leaky plumbing		50 =	
Total			

	Total for 7 days
Shower/bath	
Toilet	
Brush teeth	
Laundry	
Dishwashing	
Additional drinking water (found in foods)	
Leaky plumbing	
Grand Total	(a)

Figuring out averages

Divide grand total ____ (a) by 7 = ____ (b) to get your household daily average

Take your household daily average and divide by # of people in your house (b)

____ (b) divided by ____ (c) = ____ (d) to get your personal daily average

Parent's signature & comments: _____
