

### Lesson Four Questionnaire - Student

#### Water Taste, Quality, and Cost

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Statements about Water		Agree (mark with X)	Disagree (mark with X)	Support for opinion
I can definitely taste the difference between bottled water and tap water.	Before the lesson			
	After the lesson			
Tap water is safer for me to drink than bottled water.	Before the lesson			
	After the lesson			
Tap water is much more expensive than bottled water.	Before the lesson			
	After the lesson			

**Tasting Notes**

	<b>Water A</b>	<b>Water B</b>
<b>Smell</b>		
<b>Taste</b>		
<b>What kind of water is this?</b>		

**Tasting Notes**

	<b>Water A</b>	<b>Water B</b>
<b>Smell</b>		
<b>Taste</b>		
<b>What kind of water is this?</b>		

## EPA Tap Water vs FDA Bottled Water

	<b>Tap Water</b>	<b>Bottled Water</b>
<b>Disinfection required?</b>	Yes	No
<b>Confirmed E. Coli and Fecal Coliform Banned?</b>	Yes	No
<b>Bacteria tests per month?</b>	hundreds	four
<b>Must filter to remove pathogens or have strictly protected source?</b>	Yes	No
<b>Must test for Cryptosporidium, Giardia, Viruses?</b>	Yes	No
<b>Operator must be trained and certified?</b>	Yes	No
<b>Must test for and meet standards for asbestos &amp; phthalate?</b>	Yes	No
<b>Must use certified labs to do testing?</b>	Yes	No
<b>Must report violations to State and Federal agencies?</b>	Yes	No
<b>Consumers have a right to know about contamination?</b>	Yes	No

Adapted from Resource for Life document (<http://www.resourcesforlife.com/docs/item4145>) and the University of Iowa Water Confidence Report (<http://www.facilities.uiowa.edu/uem/water-plant.html>)

# Cost of Water calculation sheet

## *Bottled Water Calculations*

Number of bottles of water that you drink per day \_\_\_\_\_

Cost of each bottle of water \_\_\_\_\_

Number of days in a year \_\_\_\_\_

**Your total cost of bottled water per year** \_\_\_\_\_

## *Tap Water Calculations*

Amount of water that you drink per day in liters \_\_\_\_\_

Amount of water that you drink per day in gallons \_\_\_\_\_

Price per gallon of your local tap water \_\_\_\_\_

Price per day of your water intake in gallons \_\_\_\_\_

Number of days in a year \_\_\_\_\_

**Your total cost of tap water per year** \_\_\_\_\_

How does the price of tap water compare to the cost of bottled water?

What fraction of the cost of bottled water is the cost of tap water?

*What is the cost difference?*

**The difference between the yearly cost of bottled water and tap water.** \_\_\_\_\_

Helpful conversions:

- Typical bottled water volume=0.5 Liter
- Typical bottled water (0.5 Liter) cost= \$1.50
- 1 Liter=0.264 gallons
- Price per gallon of EBMUD tap water=\$0.003/gallon

### **3-2-1 Exit Card**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

#### **3 Differences in quality standards between tap water and bottled water:**

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

#### **2 Reasons to drink tap water rather than bottled water:**

e) \_\_\_\_\_

f) \_\_\_\_\_

#### **1 Small change that I will make in my life regarding tap water:**

g) \_\_\_\_\_