

**Don't Go H2Overboard**  
**(TGS Water Consumption Analysis)**

**Materials:** Water Bottle With Spout, Basin for Water Collecting, Measuring Cup (With Metric Units), Graduated Cylinder.

**Hypothesis:** We believe that 9 % of water will be wasted when drinking from a fountain.

**Procedure:**

- 1) Place basin on flat surface.
- 2) Fill water bottle, using the measuring cup, with 8 ounces of water.
- 3) Squeeze the bottle and drink **the entire contents**.
- 4) Measure the amount that is collected in the basin.

**Calculations:**

1. Record the percentage of water that is wasted (wasted ounces/8) times 100.
2. Record the amount of water that is wasted per bottle count. (% wasted times 20 ounces).
3. % wasted ounces-mean of class/8
4. Amount per bottle (% wasted mean times 20 ounces).

**Hypothesis Check:**

- 1) Your Hypothesis/Experimental Results X 100.

**Presentation:**

Make a sign that lists how many ounces we save per week/month/year to date (amount per bottle x number of bottles used).

**Marketing Results:**

List ways to market our results.

Water Conservation Lab

Leann Hellwege

Ounces to Start	ml Wasted	Ounces Wasted	% Wasted	Ounces Wasted Per Bottle
8	25			
8	88			
8	81			
8	79			
8	35			
8	106			
8	46			
8	33			
8	32			
8	18			
8	31			
8	61			
8	12			
8	49			
8	7			
Mean	of	Each Category	Under These	Columns
8	45.4	1.535	19.2%	3.84

**TGS WATER CONSUMPTION ANALYSIS**  
**CONCLUSIONS FROM THE DATA**

After performing the water consumption lab, we have concluded the following statistical data:

- 1) The average person, when drinking from a water fountain, opposed to using a water bottle, wastes 19.2% of the water.
- 2) This percentage comes to 3.84 ounces of water wasted from a 20 ounce bottle.
- 3) In one weeks time, we consumed 196 water bottles from our fountain, wasting 3920 ounces, or 30.6 gallons.
- 4) Over the course of a school year, drinking from a fountain will waste 1,101.6 gallons of water.

**BOTTOM LINE...USE A WATER BOTTLE AND DON'T DRINK OUT OF A FOUNTAIN!**