Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**WATER INSECURITY**

CLASSROOM EXPERIMENT

1. **Research According to *The Pacific institute***
   1. **Source I:** [**http://pacinst.org/publication/bottled-water-and-energy-a-fact-sheet/**](http://pacinst.org/publication/bottled-water-and-energy-a-fact-sheet/)

**The Pacific Institute estimates that in 2006:**

* Producing water bottles for American consumption required the equivalent of more than 17 million barrels of oil, not including the energy for transportation.
* Bottling water produced more than 2.5 million tons of carbon dioxide
* It took 3 liters of water to produce 1 liter of [bottled water](http://pacinst.org/issues/sustainable-water-management-local-to-global/bottled-water/)
  1. **Source I Summary Sentence:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. **Source II:** [**http://pacinst.org/publication/bottled-water-and-energy-a-fact-sheet/**](http://pacinst.org/publication/bottled-water-and-energy-a-fact-sheet/)

**Total U.S. Consumption of Bottled Water in 2006**

* According to the Beverage Marketing Corporation, Americans bought a total of 31.2 billion liters of water in 2006, sold in bottles ranging from the 8-ounce aquapods popular in school lunches to the multi-gallon bottles found in family refrigerators and office water coolers.
* Most of this water was sold in polyethylene terephthalate (PET) bottles, requiring nearly 900,000 tons of the plastic. PET is produced from fossil fuels – typically natural gas and petroleum.  
  1. **Source II Summary Sentence:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. **Source III: Water Insecurity in Africa** [**https://thewaterproject.org/why-water/**](https://thewaterproject.org/why-water/)
  3. **Source III Summary Sentence:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Room 100 Findings:**
   1. **Number of water bottles** collected over the course of the school year:
   2. **Total mL** of fresh bottled water wasted:  
      1. **P6 total:**
      2. **P7 total:**
      3. **Rm 100 total:**
   3. **Total L** of fresh bottled water wasted: (total mL/1000 **or** x .001)
   4. **Total L** of water wasted x **number of rooms** in the middle school (\_\_\_\_\_\_\_)
2. **Conclusions:**
   1. **The purpose of this exercise was:**
   2. **One important lesson I learned today was:**
   3. **One way this lesson will impact my behavior in the future:**