

Period

Task

Test Sample #

- **Only use BEAKERS on hot plates.** Mason jars are not tempered and will break on a hot plate.
- When heating substances up, it is better to put the cool beaker on a cool hot plate and heat it up instead of turning the burner on and putting a cold container on a very hot surface.
- Hot plates are hot. Don't touch the surface.
- Remove hot beakers from hot plate using rags or tongs. If you use a rag, make sure it doesn't touch the hot surface because it could catch on fire.
- Do NOT cover beakers on hot plate with rags or other items.
- **Do NOT put water with bleach on the hot plate. Use CAUTION when using bleach.**

Identify the constraints:

Here is a [list of prices](#). The design must be within the \$35 budget.

Item	Quantity/Unit	Total Cost
Sample	1	free
TOTAL		

Procedure

- 1.
- 2.

Diagram (See attached)

Water Quality Report

1. After the water is purified, get an EasyStrip to test the nitrate, nitrite, hardness, chlorine and pH. Use the TDS-3 to test for turbidity (how cloudy or clear) and temperature.
2. Record results and include units where appropriate.
3. Compare your data with the minimum water quality standards. Report out the quality of water and your analysis. Think about how are you going to record your data. Assign a different section to each research partner. Identify the researcher for each section.