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BIOG 101 103

Lab 2 – Scientific Method

Five alternative variables to test are as follows…

1. Volume of water
2. Dissolve rate in other liquids besides water
3. Water filtration level (Brita vs Tap)
4. Water flow rate (Flowing vs stagnant)
5. Composition of Alka-Seltzer (quarter piece, half piece, full piece)

I decided to test the water filtration level.

I was curious whether or not tap water would allow the Alka-Seltzer to dissolve faster than filtered water, and if the filtration would have any affect. To test this, get two clear plastic cups, mark one T for Tap water, and one F for Filtered water. Fill both cups with 200ml of their respective water types. Wait until both cups are the same temperature and stagnant. Cut a piece of Alka-Seltzer in half, and drop the half alka-seltzer pieces into the cups, one half each. Start a timer immediately and mark when each cup is finished dissolving.

The results of the experiment for me were as follows…

Here we can see that as the temperature of the water increases, the time to dissolve drastically decreases. Additionally, my hypothesis that water filtration level can play a part seems to be correct. As the filtered Brita water dissolved at a slower rate than the RIT tap water.