Project Number
J0603

## Project Title

Mixing Iodine and Bleach

[^0]
## Summary Statement

I studied the effect that bleach has on iodine and found out how much bleach is required to make the iodine clear.

## Help Received

None. I set up and performed the experiment myself and had a friend take notes.


[^0]:    Objectives/Goals
    Abstract
    I wanted to know the exact ratio of iodine to bleach to make 100 mL of water stay clear. What is the bleach doing to the iodine in this demonstration? Why is it happening? Will the water remain clear?
    Methods/Materials
    After putting on safety equipment I filled 3 beakers with 100 mL of water and added differing amounts of iodine to each beaker. Next, I slowly started to drop in bleach with a dropper and stirred it with a popsicle stick. Then, we waited to see what would change. My classmate helped me take notes.
    Results
    Much to my surprise, the water turned even darker in color while slowly dropping in bleach, but as I sped up the drop speed, it finally turned clear. after being left alone for a few minutes, it returned to its earlier dark color. So we added more bleach, waited, and it finally stayed clear.
    Conclusions/Discussion
    It turns out that the ratios all factored down to approximately 7 drops of bleach to 1 mL of iodine. Finally, if anyone else or I decide to redo this experiment, I recommend that they drop the bleach at a constant speed, not reducing or increasing it to see if the liquid still gets darker.

