

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) **Project Number** Aria K. Asmuth 38480 **Project Title Mixing Iodine and Bleach Abstract Objectives/Goals** I wanted to know the exact ratio of iodine to bleach to make 100mL of waters Vhat is the bleach doing to the iodine in this demonstration? Why is it happening remain clear? Methods/Materials After putting on safety equipment I filled 3 beakers with 100mL 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. Much to my surprise, the water turned even darker in color wh ile 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 it#s 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 1mL 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 libraid still gets darker. **Summary Statement** 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.