



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Name(s) Warner Myerson | Project Number J1122 |
| Project Title Which Water Works? | |
| Abstract Objectives/Goals My objective was to learn which type of water produced the fastest growing bean plant. I initially hypothesized that spring water would work best because it was the purest, having the least amount of chemicals, contaminants, or impurities in it. Methods/Materials Bean seeds were planted in four separate containers using the same soil, exposed to the same light sources, but watered with four different types of water (tap, spring, grey, and reclaimed). The plants were observed and measured on a regular basis to see which plant grew the fastest. Results The seed plant watered with tap water sprouted first. However, over the duration of the project, the seed plant watered with grey water grew the fastest. Conclusions/Discussion I did not prove my hypothesis. The opposite was proven. However, I attained my objective. I learned that a hypothesis can be proven wrong during an experiment. Grey water, with its impurities, was the best water to use to grow the beans the fastest. Now, instead of wasting grey water by allowing it to go down our kitchen sink drain, I collect it and use it to water plants in and around our house. Everyone can do this to help conserve water and help prevent water shortages. | |
| Summary Statement My project was to determine which type of water helps plants grow the fastest. | |
| Help Received My mother watched over plants when I wasn't home to make sure they did not get over exposure to sun. | |