



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

| | |
|--|---------------------------------------|
| Name(s) Mackenzie Scott | Project Number J1822 |
| Project Title Determining the Effect of Various Organic Solutions on Plant Growth | |
| Abstract Objectives The objective was to learn what organic solutions would effect plants growth. Methods Scarlet globe radish seeds, planters, and soil, were purchased and organic materials were gathered(lemon, grapefruit, orange, potato, and onion). Organic solutions were made with one and one half cup of water with one fruit/vegetable worth of peels. The mixtures were blended until it became a solution, and this process was repeated for all the organic materials. Seeds were planted and watered with the organic solutions and water only was used for the control. Plants were watered with the solutions every three days. Plants were monitored and measured daily for growth. Results Some organic solutions effected the plants growth. The onion solution was the most successful in promoting the radish seeds growth. Potato solution was also successful. The fruit solutions were the least successful because they formed a gel on the top of the plants and prevented growth. Conclusions Using ten trials of each solution, the most successful solution was onion in promoting the radish seeds growth. | |
| Summary Statement The organic solution that was most effective in increasing radish seed growth was an onion solution. | |
| Help Received My science teacher helped me research information for my project. | |