

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

| Name(s) | Project Number |
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| Isaac M. Pitts | 14400 |
| | J1122 |
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| Project Title Diagtic Esting Worms for a Healthier Environme | n t |
| Plastic Eating Worms for a Healthier Environme | 111 |
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| Objectives/Goals Abstract | |
| Two worm species are known to have the ability to digest certain forms environmentally safe waste. The objective of this study is to determine would break down the most plastic over a six week period. Methods/Materials | |
| An equal mass of waxworms and mealworms were placed separately in cup (polystyrene) or a shopping bag (polyethylene). The two types of pl over a period of 42 days to determine how much of each sample had been been been been been been been bee | astic were then weighed weekly |
| Results | |
| Weekly measurements showed both worm species were consuming the experiment. At the end of six weeks the final measurements showed the more polystyrene than the waxworm, and 4.1% more of the polyethylen | mealworms had consumed 3.8% |
| Conclusions/Discussion The experiment confirmed the two worm species capable of digesting b | oth polystyrana and polyathylana |
| The mealworms were found to be only slightly better than the waxworm plastic. Other factors such as worm cost and species longevity may need testing should explore the impact of varying light, temperature, and hun | ns at breaking down both types of I to be considered. Also, further |
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| Summary Statement | |
| I was able to show that mealworms were slightly better than waxworms plastic. | at consuming two varieties of |
| Help Received | |
| None. I designed, built, and performed the experiments myself. | |