



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

Name(s) Solveig Lyssand	Project Number J0914
Project Title The Effects of Changing Heights and Locations on Air Pollution Levels	
<p style="text-align: center;">Abstract</p> <p>Objectives The purpose of my experiment was to determine if more air pollution particles were collected depending on locations and heights. I do believe that locations and heights will change the amount of pollution particles that will be collected.</p> <p>Methods I conducted five trials that each consisted of 84 flash cards, the flash cards were covered in petroleum jelly, so it was able to collect particles. The cards were tested in 6 locations: My bedroom, living room, front porch, backyard, by the front door, and by the road. Each location had fourteen heights, which increased in ½ a foot increments starting at ½ a foot high and ending at 7 feet.</p> <p>Results The highest average of collected particles for the locations was by the road, and the lowest average was between both the bedroom and at the front porch. The highest average for the heights was at ½ a foot high, and for most areas as it got higher up, there were less collected particles.</p> <p>Conclusions I concluded that heights and locations do effect air pollution levels. This project helps to show the importance of our air quality, considering that there are so many air pollution particles around us. These particles are incredibly dangerous, and only cause problems for all of the plant and animal life around us.</p>	
Summary Statement I showed that the changing of heights and locations does effect air pollution levels.	
Help Received My science teacher guided me throughout this whole project, she advised me to to more improvements as well, which I believe made my project a lot stonger. My county fair interview judges also left me some notes of things I could improve upon.	