

Dear Judges,

My name is Lana Zalt and I am 17 years old. For my senior project, I decided to delve into the topic of tropospheric ozone because I have always been interested in air pollution and how to limit the amount present on the earth and create a more healthy earth. I am also intrigued about the chemistry behind how air pollutants are created and the reactions that are involved. I feel it necessary that this topic be studied in depth because tropospheric ozone, or ground level ozone, is the man-made type of ozone that is harmful to animals and the environment. It is created when a mixture of nitrogen oxides and hydrocarbon chemicals undergo a chemical reaction in the presence of sunlight, forming O<sub>3</sub>, or ground level ozone. With our health and the condition of the environment in jeopardy, it is important to understand what ozone is, how it is formed and how to prevent it from reaching high levels/how to protect ourselves and the earth from it.

The product I created was a flyer that invited the middle and high school at Michigan Islamic Academy to attend an after school presentation, given by me, in which I discussed what tropospheric ozone is, its effects, the islamic perspective on the unhealthy tropospheric ozone levels present today, and how to protect ourselves/limit the ozone levels. Throughout the process of my research and presenting my findings to the public, I learned that organization is key to succeeding and executing tasks in the best possible way and that although one might think they can finish something last second, they most likely won't execute it in an orderly manner. Additionally I learned the importance of preserving the environment, and how much the technology we have today has negatively impacted our environment and air quality.

I appreciate you taking the time to read my portfolio and judge my presentation. Thank you.

Lana Zalt