



A PILOT STUDY: EXPLORING ATMOSPHERIC LEVELS OF AIR POLLUTANTS USING AIR QUALITY SENSORS ACROSS ALTITUDE GRADIENTS



SCHOOL: ILLINOIS MATH AND SCIENCE ACADEMY

LOCATION: AURORA, IL

FLIGHT PROVIDER: WORLD VIEW

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

The final goal of our experiment is to study which pollutants are most prevalent at various altitude levels. We believe there will be a statistically significant change in pollutant concentrations as the experiment ascends. Our experiment measures the concentration of seven pollutants at various altitudes, using carbon monoxide, sulfur dioxide, nitrogen dioxide, methane, ozone, carbon dioxide, and particulate matter sensors. This data will inform efforts to combat atmospheric pollution.