



MOTOR TEMPERATURE AT ALTITUDE (MTA)



SCHOOL: SOUTH MIDDLE SCHOOL

LOCATION: MORGANTOWN, WV

FLIGHT PROVIDER: WORLD VIEW

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment will test the temperature of motors at high altitude. We hypothesize the motor will not have to shut down due to overheating. The lower density will heat the motor, but the lower temperature of the atmosphere will offset the overheating of the motor. Our inspiration for this experiment was our past motor experience. In 6th grade, we worked with circuits, which led to motor work and creating a robot in 7th. Now in 8th, we are continuing to learn with our NASA TechRise project.