



USING WIND TO POWER A LED LIGHT IN MICROGRAVITY



SCHOOL: GRACE E. METZ MIDDLE SCHOOL

LOCATION: MANASSAS, VA

FLIGHT PROVIDER: BLUE ORIGIN

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our team wants to investigate if harvesting wind for power is affected by conditions in microgravity. In our experiment, a fan will provide wind, which will then be collected by a wind turbine and converted into electrical energy which will travel through generator cables and turn on LED lights. We theorize that, under microgravity, air drag will be lower and thus, less energy will be needed to compensate for frictional force.