



## LIGHT RAYS ON THE MOON: EFFECT ON SOLAR PANELS, UV SHIELDING, AND THERMAL INSULATION FOR FUTURE LUNAR COLONIES



**SCHOOL:** ACADEMIES OF LOUDOUN

**LOCATION:** LEESBURG, VA

**FLIGHT PROVIDER:** ASTROBOTIC

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our experiment is going to gather data and develop an equation to determine the amount of UV shielding necessary to protect lunar colonies. Our hypothesis is that livable habitats on the moon would require lots of UV shielding and thermal insulation. Data from our experiment could help further research in this area and future space exploration. Our team derived this idea from interests in previous NASA activity, individual space-oriented projects, and a fascination with planetary exploration.