LUNAR MODULE FOR INNOVATION AND NOVEL EXPERIMENTS IN AI, SEEDS/SIMULANTS/SPACE JUNK (LUMINAS)

SCHOOL: OPEN WINDOW SCHOOL

LOCATION: BELLEVUE, WA

FLIGHT PROVIDER: ASTROBOTIC

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Project LUMINAS has 4 objectives: Study AI detection of craters, measure space debris, as well as SO2 to predict Mercury levels, and observe effects on lunar soil stimulant, Pacific Dogwood seeds, and dormant tardigrades (tuns). We hypothesize AI will count craters with 80% accuracy, we will find space debris in the troposphere, and study Mercury's risks as an atmospheric toxin. Lastly, we hypothesize that Pacific Dogwood seeds, lunar soil stimulant, and tuns will be affected during the flight.