



ROCKET-CARRIED INFRARED WATER DETECTION APPARATUS (RCIWDA)



SCHOOL: ST. WENCESLAUS CATHOLIC SCHOOL

LOCATION: OMAHA, NE

FLIGHT PROVIDER: ASTROBOTIC

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

For our experiment, an IR camera is used to detect temperature differences on the lunar proving ground for the purpose of finding water. If a change in temperature is detected with our IR camera, then water may be present, as water has a higher heat capacity than the rocks and soil around it. Our inspiration was the Artemis moon missions, especially the fact that their objective is to find water on the moon, which is an obstacle for future human inhabitants of the moon.