



## FULL MODEL MOON MISSION



**SCHOOL:** ALTONA MIDDLE SCHOOL

**LOCATION:** LONGMONT, CO

**FLIGHT PROVIDER:** ASTROBOTIC

**GRADES:** MIDDLE SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our experiment uses different sensors to collect visual data on the “lunar” surface. Then, we will stack data together to create a 3D model and a precise image of the surrounding area. We hypothesize that if we have more sensors collecting data, then we will be able to create a precise 3D model and image to more successfully map the lunar surface for lunar rovers. Our initial idea was to just use LiDAR in our proposal for NASA TechRise, and then we expanded on our idea to make it better.