



## REGOLITH UTILIZATION FOR PROTECTING ASTRONAUTS FROM RADIATION AND TEMPERATURE SWINGS (R.U.P.A.R.T.S)



**SCHOOL:** BLUE SPRINGS SOUTH HIGH SCHOOL

**LOCATION:** BLUE SPRINGS, MO

**FLIGHT PROVIDER:** WORLD VIEW

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

We want to investigate if the lunar regolith can block the radiation and protect us from the temperature so we can build communities on the moon. Our hypothesis is that LunarCrete will be able to protect against at least 70% of the Sun's radiation and will reduce the temperature variations inside the LunarCrete Box by at least 50% as compared to our control outside the LunarCrete box. The inspiration for our experiment is for the astronauts to have a more convenient way to make homes on the moon.