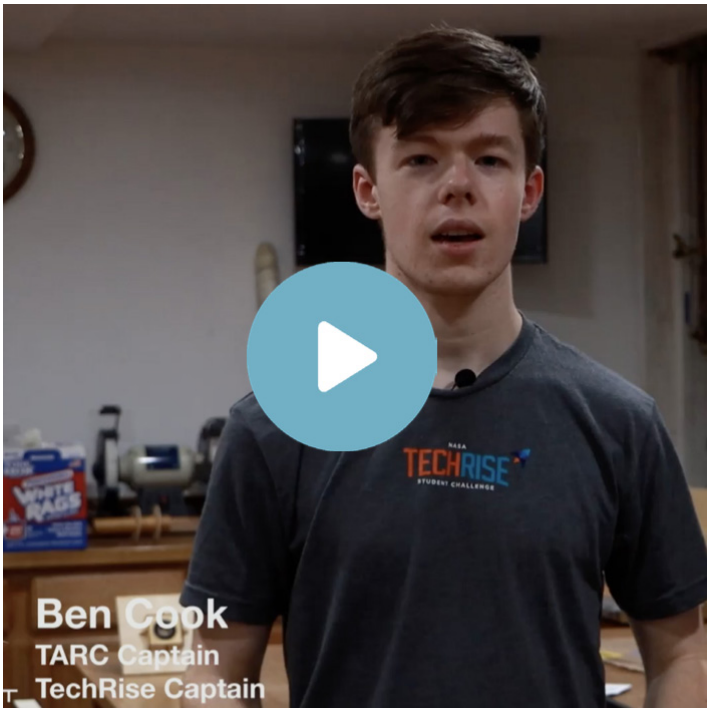

LUNAR REGOLITH SIMULANT BEHAVIOR IN MICROGRAVITY ENVIRONMENTS

NASA TECHRISE STUDENT CHALLENGE

SCHOOL: MARQUETTE HIGH SCHOOL

LOCATION: CHESTERFIELD, MO

FLIGHT PROVIDER: UP AEROSPACE

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Lunar regolith presents several challenges for lunar habitation. Our experiment will simulate and observe the behavior and properties of lunar regolith in microgravity and vacuum. The de-spin maneuver of the rocket will cause the regolith simulant to move around within a chamber and a camera will be used to capture data. By learning more about how lunar regolith behaves, engineers will be better prepared to design missions to be protected from its negative effects.