



## !! SPACE COFFEE GRINDER !! GRINDING UP COFFEE BEANS FOR A PERFECT CUP OF "SPACE JOE."



**SCHOOL:** PAWNEE HEIGHTS SCHOOL

**LOCATION:** ROZEL, KS

**FLIGHT PROVIDER:** BLUE ORIGIN

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our team wanted to grind up coffee beans to create the perfect cup of "Space Joe." We created our own coffee grinder based on the Hario Mini coffee grinder. Our design uses a DC motor with a gear box mounted on top of a drive shaft for the inner burr. It will rotate to provide the torque for the burr to grind the beans. We also have a 1.25-inch outer diameter 1.75-inch length spring to act as tension to push the beans down into the grinder burrs.