



## GYROSCOPE MOMENTUM IN MICROGRAVITY



**SCHOOL:** STEM LAB

**LOCATION:** NORTH GLENN, CO

**FLIGHT PROVIDER:** UP AEROSPACE

**GRADES:** MIDDLE SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our team asked, "How does a gyroscope act in microgravity?" We think the gyroscope will keep gaining momentum and spin for the entirety of the three minutes of microgravity. Using a servo motor in the corner of the flight box, a spool will pull on the axis to spin the gyroscope. A few seconds after microgravity is achieved and after the clamp has released the gyroscope, Servo motors will provide a push upward on the gyroscope. After 15 seconds of non-microgravity, it will turn off.