



TESTING IF DENSITY EXISTS IN ZERO GRAVITY



SCHOOL: FAYETTE JR-SR HIGH SCHOOL

LOCATION: FAYETTE, OH

FLIGHT PROVIDER: BLUE ORIGIN

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment aims to test if density exists in space. Water and mineral oil will be concealed in separate chambers, and then during microgravity, a motor containing a magnet outside of the container will spin to mix the liquids. The outside magnet will start spinning the pill magnet inside the container and rapidly combine the two liquids. On earth, oil and water will separate, but in microgravity, we hypothesize that the two will mix due to the lack of forces acting upon the liquids.