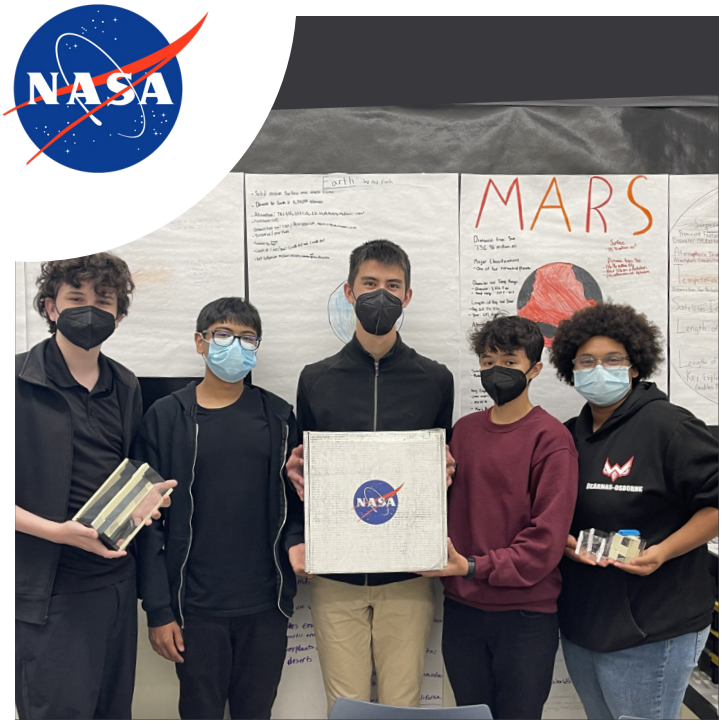

WAVE PROPAGATION IN FLUIDS UNDER ZERO GRAVITY

NASA TECHRISE STUDENT CHALLENGE

SCHOOL: WISH ACADEMY

LOCATION: LOS ANGELES, CA

FLIGHT PROVIDER: BLUE ORIGIN

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment tests how waves propagate through a free-floating liquid while in microgravity. The experiment consists of a sphere of distilled water suspended in a small plastic cube. When the rocket enters microgravity, the water in the container will no longer be forced into the container by gravity. The water's surface tension will cause the liquid to form a sphere and float. We'll observe and analyze the effects the waves have on the shape and movement of the sphere.