



BERNOULLI'S PRINCIPLE: COMPRESSIBILITY OF WATER IN MICROGRAVITY



SCHOOL: NORTH OCONEE HIGH SCHOOL

LOCATION: BOGART, GA

FLIGHT PROVIDER: BLUE ORIGIN

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment is designed to verify that water is not compressible using Bernoulli's Principle. We plan to do this with a fluid system which runs in a loop. We will run water through the loop, and as it travels, we will measure the fluid's flow, velocity, and pressure. Using the data, we can then use Bernoulli's principle to solve for the density. We hypothesize that the density in microgravity should be the same as the density on Earth if water is in fact not compressible.