



# CAPILLARY ACTION OF FLUIDS OF DIFFERENT VISCOSITY IN MICROGRAVITY TO SUPPORT HYDROPONICS/AEROPONICS SYSTEMS



**SCHOOL:** TORNILLO HIGH SCHOOL

**LOCATION:** TORNILLO, TX

**FLIGHT PROVIDER:** BLUE ORIGIN

**GRADES:** HIGH SCHOOL

## STUDENT EXPERIMENT DESCRIPTION

The goal of our experiment is to study capillary action of fluids of different viscosity to support hydroponics/aeroponics systems. We will use a motor to move a platform with capillary tubes that are filled with different substrates attached. The tubes will penetrate a chamber filled with different liquids. We expect the liquids will rise through the tubes due to capillary action. Using camera footage from the experiment, we will calculate the rates of absorption of the different liquids.