



EXTREME LAUNCH ENVIRONMENTS ON SPACE LAUNCH VEHICLES



SCHOOL: MONTGOMERY HIGH SCHOOL

LOCATION: SKILLMAN, NJ

FLIGHT PROVIDER: UP AEROSPACE

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment studies vibrations and extreme launch environments on space launch vehicles. The purpose is to gather data for vibrations for the UP A Spaceloft XL rocket, connect them to different factors of causation, and make conclusions which will allow engineers to accurately model the performance of payloads and prepare for space flight. We'll use a variety of sensors to gather vibration data, specific frequency, and amplitude values as well as other launch sensors to achieve our goal.