



## THE CORRELATION BETWEEN RADIATION AND ATMOSPHERIC DENSITY



**SCHOOL:** WISH ACADEMY HIGH SCHOOL

**LOCATION:** LOS ANGELES, CA

**FLIGHT PROVIDER:** AEROSTAR

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our experiment will observe the relationship between atmospheric air density and the amount of gamma and ultraviolet radiation that penetrates the atmosphere. It will use gamma radiation, ultraviolet radiation, temperature, humidity, and pressure sensors to record the data. We will then compare the radiation with the atmospheric density and look for correlations. After establishing a relationship, we will extrapolate the data to estimate the amount of radiation that reaches the surface of Mars.