



## C.R.A.T.E.R.S. (COSMIC RADIATION ACROSS TWO ENERGY RESISTANT SUBSTANCES)



**SCHOOL:** SEWANHAKA HIGH SCHOOL

**LOCATION:** FLORAL PARK, NY

**FLIGHT PROVIDER:** WORLD VIEW

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

We aim to see the effect of altitude on radiation levels to test the efficacy of protective materials against radiation exposure. We'll use a camera to take photos of the horizon line and a UV sensor to measure the radiation levels. We hypothesize that the number of radioactive particles detected increases with altitude and decreases by using aluminum and polyethylene unlike the unshielded control group. Our inspiration is the research about the high radiation levels astronauts are exposed to.