



RADIATION SHIELDING OF COMPOSITIONS OF POLYETHYLENE, TANTALUM, AND MOLYBDENUM DISULFIDE



SCHOOL: THOMAS JEFFERSON HIGH SCHOOL FOR SCIENCE AND TECHNOLOGY

LOCATION: ALEXANDRIA, VA

FLIGHT PROVIDER: AEROSTAR

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

This experiment tests the radiation shielding ability of multilayered shielding. We hypothesized that a shield using a combination of a low-density material in conjunction with a high-density material would improve overall shielding. Our inspiration for this idea came from research about the high radiation risk in space and how various shielding materials had different capabilities.