



QUANTUM DOT RADIATION SHIELD PROJECT



SCHOOL: DIXON-SMITH MIDDLE SCHOOL

LOCATION: FREDERICKSBURG, VA

FLIGHT PROVIDER: WORLD VIEW

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our team will observe changes in quantum dot film's light emission from radiation at 70,000 ft and determine the effectiveness of different methods of radiation shielding. This would show how these films can be used to measure radiation exposure. If quantum dot film is sent to high altitudes, then it could be used as an ionizing radiation detector. Interested in alternative methods of radiation shielding, our team learned about quantum dots and wanted to test their reactions to gamma radiation.