



COMPARISON OF AIR FILTERS MATERIALS IN SPACE



SCHOOL: HARMONY SCHOOL OF INNOVATION

LOCATION: RICHMOND, TX

FLIGHT PROVIDER: WORLD VIEW

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

The experiment will compare five existing mainstream air filter materials and compare them to a baseline with no air filter material. The particulate matter filtration effectiveness of each candidate air filter material will be evaluated by measuring the mass concentration and a number of particles sensed by a particulate matter sensor. This will allow the experiment to assess filtration effectiveness for particulates in both the troposphere and stratosphere.