



CORROSION OF METAL IN OUTER SPACE



SCHOOL: HOPKINTON MIDDLE SCHOOL

LOCATION: HOPKINTON, MA

FLIGHT PROVIDER: AEROSTAR

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment compares the rates of corrosion of steel wool on Earth vs. the Stratosphere. Steel wool is an alloy of iron, carbon, silicon, and manganese. We will measure humidity, oxygen, and temperature levels during flight with exact amounts of acetic acid and wool in each experiment. We hypothesize that it will take longer for the iron to rust in the stratosphere than in the troposphere due to lower oxygen levels.