



## LIFTING FORCE AND THE RELATION TO ATMOSPHERIC PRESSURE



**SCHOOL:** SAINT THOMAS ACADEMY

**LOCATION:** MENDOTA HEIGHTS, MN

**FLIGHT PROVIDER:** WORLD VIEW

**GRADES:** HIGH SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our experiment is meant to compare the lifting force of a propeller and the atmospheric pressure at different altitudes. We plan on using a force sensitive resistor to measure the lifting force, and an onboard atmospheric pressure sensor to measure said pressure. The propeller will provide less lift the higher the balloon ascends because the atmospheric pressure decreases the higher the altitude. We were inspired to learn new skills and create a NASA project for the school.