## Temperature vs Altitude

METROPOLITAN
Community College

## INTRODUCTION

Going into the experiment we knew the balloon would be filled with hydrogen and had the potential of reaching well over 60,000 ft.

Our team wanted to measure and compare the change in temperature to the change in altitude.

We hypothesized that as the high altitude ballooning experiment gained altitude the temperature would drop as a result.

## METHOD

On board the high altitude ballooning experiment was a specialized pod. This particular pod housed a system of sensors that took readings of what the balloon was experiencing throughout its flight.

Among these sensors, temperature and GPS altitude were taken.

Once the flight had ended, the balloon experiment was collect and the data was compiled we could then take these two sets of data and compare them to our predictions.

Highlights
Maximum Altitude $27,733 \mathrm{~m}$ or $91,000 \mathrm{ft}$. Minimum Temperature $-39.5^{\circ} \mathrm{C}$ or $-39.1^{\circ} \mathrm{F}$

RESULT


Views from 90,000 ft.


