

# The Effect of the Wavelength of Light on the Growth Rate of Cyanobacteria and Its Survival in a Martian Atmosphere

Aitken, Catherine (School: Aziz Sancar Fen Lisesi )

Jian, Dana (School: Le Quy Don High School for the Gifted, Quang Tri)

The purpose of this experiment was to test in what wavelength the cyanobacteria *Cylindrospermum* (Substitute for *Chroococcidiopsis*) grows best and whether these wavelengths had an effect on the survival rate of cyanobacteria in a Martian atmosphere. The Martian atmosphere aspect was introduced because of a NASA statement that mentioned that *Chroococcidiopsis* could be important in the colonization of Mars.

## Awards Won:

University of Arizona: Tuition Scholarship Award

National Aeronautics and Space Administration: Second Award of \$750