

# **Proposal**

## **Team Number:**

**School Name:** Moriarty High School

**Area of Science:** Microbiology

**Project Title:** Antibiotic Resistant bacteria

In recent years, bacteria has become increasingly resistant to antibiotics. Antibiotics are administered worldwide on a daily basis. What if all bacteria became resistant to antibiotics and the entire world was hit with a contagious bacterial disease? A solution needs to be found for this impending disaster or a huge percentage of the population could be wiped out. The more resistant bacteria become to antibiotics the harder it is to kill them. This challenge will provide data to support the argument towards bacteria developing resistance to antibiotics faster than they can be developed. To do this we will interview first hand professionals such as doctors, specialists in microbiology, and programming experts. This research will also explain how bacteria can be better controlled. The bacterias that will be researched are Enterobacteriaceae, Streptococcus Pneumoniae, and Staphylococcus Aureus (MRSA), as examples of how antibiotic resistance is forming. We plan on showing this by creating a model of the bacterias current condition and how it could change in further years with and without intervention.

## **Team Members**

- Taylor Cannaday
- Nicholas Cox
- Margaret Young

## **Sponsoring Teacher(s)**

- Carol Thompson
- Laura Williamson

## **Project Mentor(s)**

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