

Isaac Aragon & Chris Bolin  
*Power of the Wave*

The project is a continuation of our last year's work. We wanted to make last year's project more efficient. We created a sound receptor by modifying the previous design by utilizing a parabolic reflector. We found research which supported our theory of utilizing the parabola for sound collection and which indicated that the parabola would be more efficient at collecting that sound. We tested how efficient the parabola was at collecting vibrations. We tested the parabola with various methods of creating air molecule movement. We compared the results using the parabola to those of the previous year using a cylindrical shape. The data indicated that the parabola was not as successful as we thought it would be at collecting and focusing the vibrations from the air movement. The amount of energy created was less than had been hoped for and was actually less than last year's project produced. Our hypothesis was inconclusive. There was not enough movement collected, but it was not clear whether that was due to the parabola or other design issues. More testing needs to be done.