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| **CONCLUSION**  The two mice that I used for this experiment do not make up the whole population of every organism capable of enhanced brain activity due to Mozart. They are, however, a good way to simulate a whole population in a very small scale.  The first initial maze run-through was to test the memory of both the mice before any type of experimenting. With this, I was able to compare the improvement, or lack of, with all the other runs. This first run served the purpose of a "control", although the real control was mouse "B". The first run showed the quickness of mouse "B" over the slowness of mouse "A". (This was not a factor behind choosing "A" to be the one listening to music, though; I have them determined beforehand) In exchange for the small number of mice I had, I tested them for a period of a week, which translates into 168 hours of Mozart for mouse A. I felt that this was a significant amount of time to test the Mozart effect. It was enough time for the mice to adjust to their new environment as well as show encouraging results from the experiment.  With each day of music, it is evident that mouse "A" showed improvement, while mouse B pretty much went up and down randomly. Although the improvements are subtle, they are there. The mouse was successful in increasing the difference of the first run compared to the second run, although not consistently. With each day, I was able to sense more alertness of the mouse than when I first got it. I feel that I got significant enough results, although they are not the incredibly obvious ones that I had anticipated.  The graph above shows the difference of time between the initial run of the maze and the second run 10 minutes after. (Blue: Mouse A, Purple/PInk: Mouse B) As shown, mouse A has consistently done better the second run while mouse B even got some negative differences, indicating a longer second run. These results show that mouse A was able to benefit from the classical music it was exposed to. Mouse A was able to do better on the second run each time, indicating an improvement of memory after being exposed to music.  The results surprised me. Honestly, I did not think that I would get significant differences from this experiment. I felt that a few mice and some music would not prove much, but I was wrong. A longer period of time, as well as more mice would have been nicer and would have given better, more significant results. However, even with the short amount of time and small amount of data, I was able to see the Mozart Effect taking place. I was able to see that Mouse A, even though was more alert in the maze, was calmer (and easier to pick up) than Mouse B which seemed to have a lot of anxiety and run around more than the other. This could just be a difference in the personalities of each mouse, but I believe it is because the music was able to calm Mouse A and gave it a serenity and peace of mind to do the maze more efficiently.  In conclusion, this experiment proves to be a success. I was able to get workable, interpretable data that shows the Mozart Effect at work, even in the brains of mice.  Going into this project, I did not really have sufficient background information to really know what I was going to be doing. It was a learn as I go kind of project. But I had fun working with cute little mice and seeing results.  **If I had the chance to do it again�.**  I would work with more mice. I feel that if I had more mice and more trials, my results would be even more drastic. Also, I might work with different types of music. Not just Mozart and classical music, but others like rock and pop music. With these to compare with, I might have been able to see more varied results.  It would also have been interesting to use people as subjects. Although this might be harder to make the experiment uniform, an experiment using people seems more worthwhile. Also, past experiments have shown usable results. With this, it would have been interesting to see results coming form adults, or children, comparing whether age or sex is a factor.  **Reflections:**  Looking back on this project, there are many things I wish I could have done to make it better (see above). However, now that everything is done and over with, I am very happy that this project is over that feel that I have done a satisfactory job. This is my first real science project. (I never entered in any science fairs in elementary school!!) It feels great to have seen results from a project that I made and executed. Also, it was a great learning experience for me. I was able to read into some great theories and some great experiments done by professionals similar to mine.  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