

# The Effect of Music on Dogs

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Project ID#

## Q1: Research Question/Engineering Goal

What music genre calms down a dog the most when alone?

## Q3: Data Analysis & Results

Firstly, the dog that I tested for my experiment was my dog, Sandy. Sandy is a pure bred (we think) golden retriever. She is 6 years old, weighs 76lbs, and is only sometimes she gets hyper. Her resting heart rate was 65 bpm and I got that by using a stethoscope and a timer set for 1 minute. I played her a total of 5 genres of music, reggae, rock, classical, country, and rap. For the reggae genre I played her Bob Marley's Three Little Birds which resulted in a heart rate of 63bpm which is surprisingly lower than her resting heart rate. For the rock genre I played her Welcome to the Jungle by Guns'N'Roses which elevated her heart rate to 74bpm. For classical I played her Fur Elise by Beethoven which resulted in another heart rate of 63bpm. For the country genre I played her Amarillo by Morning by George Strait and she had a heart rate of 68bpm. Finally for the last genre which was rap I played her Without Me by Eminem and she had a heart rate of 66bpm.

## Q2: Methodology/Project Design

My first step of the experiment was to gather all my materials that I listed. I recorded her resting heart rate using the stethoscope. After that I played her the first genre which was reggae, and after the song was over, I tested her heart rate again and gave her a 5-minute break. After playing her the first genre I then continued this on for 4 more genres while also continuing to measure her heart rate after each song and giving her a 5-minute break in between the songs. After I was done playing her all the songs, I was finished collecting all my data and gave her a treat for being a good dog and behaving.

## Q4: Interpretation & Conclusions

Overall, reggae and classical music gave the dog the lowest heart rate of 63bpm which made her the calmest. This makes my hypothesis partially correct because I predicted that classical music would clam her down the most. So, if you need your dog to calm down while you're out of the house, play some reggae or classical music.