

Name _____ Date _____

Scientific Method: Music Lab

Directions: In this lab, you will follow the steps of the scientific method to complete this lab.

Problem: How will different music affect your heart rate?

Research:

- What is your opinion of rap music? _____
- How does rap music make you feel? _____
- What is your opinion of rock n roll music? _____
- How does rock n roll music make you feel? _____
- What is your opinion of R&B? _____
- How does R&B make you feel? _____
- What is your opinion of country? _____
- How does country music make you feel? _____

Hypothesis:

- I think that rap music will _____ my heart rate.
- I think that R&B music will _____ my heart rate.
- I think that rock n roll music will _____ my heart rate.
- Now, choose a type of music and form an hypothesis using an “if ,then” statement

Experiment:

1. Count your resting heart rate for 60 seconds and record it in the table. Repeat.
2. Listen to rock n roll music for 2 minutes, count your resting heart rate for 60 second, and record it in the table. Repeat.
3. Listen to rap music for 2 minutes, count your resting heart rate for 60 second, and record it in the table. Repeat.
4. Listen to R&B music for 2 minutes, count your resting heart rate for 60 seconds, and record it in the table. Repeat
 - What is the independent variable(s)? _____
 - What is the dependent variable? _____
 - What is the control group? _____

Data:

	Heart Rate (Trial 1)	Heart Rate (Trial 2)	Average
Resting			
After R&B Music			
After Rap Music			
After Rock Music			
After Country Music			

	How did you feel?	How did you feel?
Resting		
After R&B Music		
After Rap Music		
After Rock Music		
After Country Music		

Conclusion:

- How did rock n roll music affect your heart rate? _____
- How did rap music affect your heart rate? _____
- How did R&B affect your heart rate? _____
- Does this conclusion support or reject your hypothesis? _____
- Explain the difference between your qualitative and quantitative data.

- Construct a Line graph for both trials 1 and trials 2 on the graph below using different colors for each graph.

