

# Project Research - Rough Draft

For your project research, you need to find a **minimum of 3 sources**. Each source should help answer the questions you identified for your project. For a source to be useful it needs to provide 2 to 3 facts that you can use to develop your project.

Once you have found a source you need to write down **AT LEAST 2** pieces of information that you learned. This can be done with bullet points or complete sentences. Record the information for each of the websites on the following pages. Each source should be cited in APA format.

Project Title: Does the genre of music affect the way you learn?

## Research Source 1

Title/Website URL: https://www.thetabernaclechoir.org/articles/the-powerful-effect-of-music-on-the-brain.html

Date information was accessed: February 1, 2018

### Information from Source (AT LEAST 2 FACTS)

Studies linking music to memory recall have increased since the early 20<sup>th</sup> century, when the research first emerged. Listen to certain music can take your mind back decades in an instant.

In a previous blog post we published titled "Studies Prove Music Boosts Brain Activity in Alzheimer's Patients" we cited the documentary *Alive Inside*, which chronicled how music overcame patients

suffering from memory loss. "Music evokes emotions and emotion can bring with memory"

Neurologist Oliver Sacks.

Site Source in APA format: "The Powerful Effect of Music on the Brain." *The Powerful Effect of Music*

*On the Brain*, 1 Feb. 2018. <https://www.thetabernaclechoir.org/articles/the-powerful-effect-of-music-on-the-brain.html>.

### Research Source 2

Title/Website URL: <https://www.healthline.com/health/does-music-help-you-study>

Date information was accessed: September 5, 2022

Information from Source (AT LEAST 2 FACTS)

Music helps concentrate while studying and learning. Others find it hard to focus with any background noise at all. Music can offer lots of benefits including improved mood, increased motivation, boost concentration, improve memory and brain stimulation, and better management of pain and fatigue. The best type of music is music without lyrics, instrumental music. Keep the volume low and no music with strong emotion music.

Site Source in APA format: "Here's How Music Can Help You Concentrate." *Healthline Medical*. <https://www.healthline.com/health/does-music-help-you-study#benefits-of-music-for-studying>

Studying

### Research Source 3

Title/Website URL: <https://www.vagc.edu/blog/how-does-music-affect-your-brain>

Date information was accessed: December 9, 2021

Information from Source (AT LEAST 2 FACTS)

One of the first things that happens when music enters our brain is the triggering of pleasure centers that release dopamine, a neurotransmitter that makes you feel happy. This response is so quick, the brain can even anticipate the next pleasurable patch in familiar music and prime itself with a dopamine rush.

Site Source in APA format: Member, VAGC staff. "How Does Music Affect Your Brain?" VAGC: <https://www.vagc.edu/blog/how-does-music-affect-your-brain>

University of Arizona Global Campus. "VAGC." <https://www.vagc.edu/blog/how-does-music-affect-your-brain>

music - effect - your - brain

# Project Research - Final Draft

Using your research, write 1-2 paragraphs describing the research you found on your project question. Make sure to avoid plagiarism by paraphrasing any information you may have found. Use quotation marks for any quotes you may be using. Use complete sentences (at least 7) and proper grammar when writing your final research. Write neatly!! If it's not legible, I cannot grade it.

Does the genre of music affect memory? Music has different rhythms, motions, and tempos. Different types of genres can boost energy, mood, or open up your brain. For example, your studying for an upcoming exam and while your studying you listen to music. During the day of your exam you listen to the same song, this helps you remember what you studied. Why? According to The University of Arizona, "The first thing that happens when music enters our brain is the triggering of pleasure centre that release dopamine, a neurotransmitter that makes you feel happy. The brain can even anticipate the most pleasurable path in familiar music and give itself with an early dopamine rush." When your studying with a certain type of music/song it creates a memory hole in your brain so the day of the exam you can remember what you studied by listening to your certain genre/song. According to The "The New York Times" "Chronicled how music awakened patients suffering with memory loss." As a result music improves brain memory, it can bring special feelings or memories.

# Bibliography

In alphabetical order, list all sources you used - make sure they are written in APA format.

• Member, UFGC staff, "How Does Music Affect Your Brain? UFGC's University of

Arizona Global Campus" [https://www.uzgc.edu/blog/how-does-](https://www.uzgc.edu/blog/how-does-music-affect-your-brain)

music-affect-your-brain

• "Studies Prove Music Boosts Brain Activity in Alzheimer's Patients." *Studios Prove Music Boosts*

*Brain Activity in Alzheimer's Patients*, 5 February, 2016, [https://www.thealzheimerschoir.org/articles/](https://www.thealzheimerschoir.org/articles/brain-activity-in-alzheimer-s-patients.html)

[music-boosts-brain-activity-alzheimer-s.html](https://www.thealzheimerschoir.org/articles/brain-activity-in-alzheimer-s-patients.html)

# Project Hypothesis

State Your Hypothesis

Based on your research, decide what you think the outcome of the project will be and make a good guess as to what you think the answer to your question will be. **Also explain WHY you think that will be the outcome.** Remember, it is ok if you don't have the right answer; that is how scientists make discoveries. Make sure that your hypothesis is written in a complete sentence.

Start by listing some possible outcomes or answers to your question.

Music genres:

- classical
- Pop
- country
- Rap
- jazz

Decide which outcome is most likely. This will be your hypothesis. Clearly write your hypothesis in an if \_\_\_\_\_ then \_\_\_\_\_ because \_\_\_\_\_ statement.

~~If you listen to classical music then you can remember and focus because classical music only has instruments and is more peaceful.~~

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Approved?

YES

NO - REDO

# Variables

Remember that your experiment needs to follow the scientific process and that you need to have one variable that you are going to change (independent variable). There are three variables in a scientific experiment: independent, dependent, and controlled. The **independent variable** is the one, and only one variable you will change. The **dependent variables** are those being observed and measured throughout the experiment. The **controlled variables** are those that remain constant and allows you, the scientist, to understand how the experiment would react under normal circumstances.

**Independent Variable:** The genre of music and results

**Dependent Variables:** The genres of music depends on how good or bad the

results of the participants come out as.

**Controlled Variables:** The app, would stay the same, amount of children / participants

In each group, same starting time, same place, same app, and same class

# Materials

List all materials needed to complete the experiment. Be specific about the type, size, brand, amount, etc. Use bullet points to list materials.

- \* Hystrix
- \* Knight
- \* Andre
- \* Rachel
- \* Alonso

23 participants  
27

- \* Karen Jimenez
- \* Catala chaves
- \* Cain bealve
- \* Moricello collins
- \* Dominic Pogy
- \* Johnthn Rio
- \* Kelvin Jr
- \* Saviano
- \* Uterio
- \* Benjamin
- \* Adion
- \* Dominic
- \* colleb
- \* Christian
- \* Ivy June
- \* Arclly
- \* Arino
- \* Allans sister
- \* Memory games
- \* Karen Jimenez
- \* Catala chaves
- \* Cain bealve
- \* Moricello collins
- \* Dominic Pogy
- \* Johnthn Rio
- \* Kelvin Jr
- \* Saviano
- \* Uterio
- \* Benjamin
- \* Adion
- \* Dominic
- \* colleb
- \* Christian
- \* Ivy June
- \* Arclly
- \* Arino
- \* Allans sister
- \* Memory games
- \* Chrombook (25)
- \* Headphone (25)
- \* Songs
- \* <https://www.youtube.com/watch?v=DLpTDCAFmIC>
- \* <https://www.youtube.com/watch?v=DKcmKkVd0>
- \* <https://www.youtube.com/watch?v=GeyECB-DE>
- \* <https://www.youtube.com/watch?v=ZEDzd-yr1>
- \* <https://www.youtube.com/watch?v=MKD1-60H>
- \* 25 people
- \* Stopwatch (google)
- \* <https://www.humanknowledge.com/11575/memory>
- \* Paper
- \* Red pencil
- \* Phone for photos :)

# Procedure

Write out each STEP of your experiment. Remember to number each step and clearly explain what to do. Other scientists should be able to follow the same steps and get similar results. Use complete clear sentences and BE SPECIFIC!

1. Separate the 20 people into groups of five (five genres of music)

2. Give each person a chromebook and headphones to go to <https://www.humanbenchmark/tests/> and start it.

3. One group will listen to classical music <https://www.youtube.com/watch?v=dLrP7DdACFMc> and you'll be.

4. Second group will listen to pop music <https://www.youtube.com/watch?v=NkBI-60H-558t-3S> (with 5 people)

(with 5 people)

5. Third group will listen to rock music <https://www.youtube.com/watch?v=GyEcb-DEGK>

6. Fourth group will listen to R&B music <https://www.youtube.com/watch?v=Edz8r-p9A>

7. Fifth group will listen to jazz music <https://www.youtube.com/watch?v=0XcmKqV0EjM>

8. Play the memory game while listen to all the genres of music depending your group.

9. Until finished with the memory game stop the stopwatch.

10. Record all your score on the memory game and time on the stopwatch on a paper.

11. Graph your results on a graph and table to see which genres helps you memories more.

