



Science of Music for Jr, CD, Sr, AM

Pillar: STEAM

Outcomes: Utilize problem solving skills and the scientific method to discover the science of music. Learn how music can bring out different emotions and how it can be used for education.

The focus this month is on civic engagement. How does this tie-in to the science of music? Did you know that music has helped shaped societies? This activity you will learn about how music can be patriotic and used to bring communities together and how it can bring out emotions. There is more to music than just sound and notes!

1. Find out about what makes music (Discover)
 - a. These two fun YouTube video explain the science of music:
<https://www.youtube.com/watch?v=01Lzge68HbO>
<https://www.youtube.com/watch?v=zAxT0mRGuoY>
 - b. What are things around the house that you can use to make patterns to make music?
 - c. Play some music games here: <https://pbskids.org/games/music/>

2. How does music affect the brain? How has music been used for civic engagement? (Discover, connect)
 - a. Discuss what type of music you listen to. What do you like about it?
 - b. Here are a few videos about music and the brain:
<https://www.youtube.com/watch?v=SePL2w5f6dE>
<https://www.youtube.com/watch?v=nT3O93-nxDc>
<https://www.youtube.com/watch?v=ROJKCYZ8hng>
 - c. Ask your parents what music they listened to when they were growing up and what it meant to them

3. Discuss how songs affect your mood (Discover, Connect)
 - a. Learn some patriotic songs. How are they patriotic?
 - a. Learn TAPS. What is it used for?
 - b. What are some songs that talk about the USA flag? Can you find some songs about democracy?
 - b. What songs make you feel sad? Happy? Calm?
 - c. Discuss how music can evoke different emotions.
 - a. Check this song out: <https://www.youtube.com/watch?v=PSZxmZmBfnU>
 - b. How about this song? <https://www.youtube.com/watch?v=ffxKSjUwKdU>
 Or this one: <https://www.youtube.com/watch?v=4fWyzwo1xg0;>
<https://www.youtube.com/watch?v=u9Dg-g7t2l4>
 What emotions or feelings do you feel when listening to it?
 - d. Think about songs that just make you want to get up and dance.



- a. <https://www.youtube.com/watch?v=FiXCxfWWwPo>
 - b. <https://www.youtube.com/watch?v=C7dPqrmDWxs>
 - c. What other ways can music be used?
4. Find songs that send a message, teach something, or represent something (Discover, Take Action)
- d. Watch and discuss what the meaning in this video is:
<https://www.youtube.com/watch?v=1VM2eLhvsSM>
 - e. What songs can you find that help unite people?
 - a. Check this video out: <https://www.youtube.com/watch?v=9AjkUyX0rVw> or this one <https://www.youtube.com/watch?v=8TMeJaJACQI>
 - b. Discuss the message from either video
 - f. What songs can you find that teach others?
 - a. Discuss the alphabet song. What other songs do you remember that taught you something?
 - g. Record a troop video or song to send a message or teach something. Share it with another troop.

Are you loving these STEAM activities? Do you want more to extent your learning? Check out our Pinterest board full of hands on learning here: <https://www.pinterest.com/gprograms/stem-activities>

