



Music & Math with Pete the Cat

Activity Instruction	Video Instructions	Youtube Summary
 https://drive.google.com/file/d/1hj17L5Y0MxpDEZReCHo-3PsVB008noNY/view?usp=sharing	 https://www.youtube.com/watch?v=TdlPwO69CLK	 https://drive.google.com/file/d/14t3CWET44kk5MBLcLY_eHv_4xTRWU2TL/view?usp=sharing

DESCRIPTION: During this activity, your Pre-K and Kindergarten students will be fully engaged in the learning process as they review mathematical concepts such as counting, addition, and subtraction through developmentally appropriate practices such as play, dance, music, movement, and literacy! After they learn interactively about different genres of music, they will practice addition and subtraction with Pete the Cat's song and book, *Pete the Cat and His Four Groovy Buttons*, and then have a chance to apply these musical and mathematical concepts by composing their own genre of music and song!

AMOUNT OF TIME: 45 minutes

MATERIALS NEEDED:

- *Pete the Cat and His Four Groovy Buttons* book
- Ipad with youtube videos preloaded:
 - Read aloud : <https://www.youtube.com/watch?v=py8h1Q3UIbY>
 - Country example: <https://www.youtube.com/watch?v=w6r4E514nJg>
 - Rock example: <https://www.youtube.com/watch?v=0W-T4kdgzKU>
 - Hip-Hop example: <https://www.youtube.com/watch?v=BQ9q4U2P3ig>
- chart paper and markers
- Pete the Cat stuffed animal
- Real buttons (enough for each student to have 10) – Or **any** small counters
- (Optional Materials):



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- *Real instruments (adult or child size) such as drum, triangle, toy xylophone, guitar, maracas, recorder, harmonica, kazoo, etc. **Check with the school music teacher for any of these items to use in this lesson.***
- *App on ipad "**123 Fun Music Games**" which will allow students to create music with different instrument sounds/pictures on the ipad*

OBJECTIVE(S):

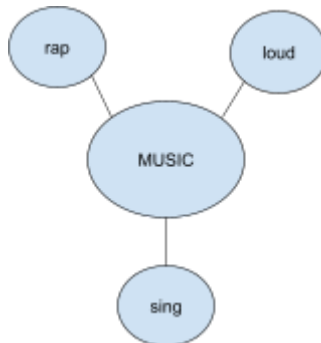
1. Students will be able to explore and experience different genres of music with the youtube app and describe characteristics of those genres.
2. Students will be able to act out addition and subtraction problems with concrete objects.

COMMON CORE STATE STANDARDS:

- CCSS.Operations and Algebraic Thinking K.OA
Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.
1. Represent addition and subtraction with objects, fingers, mental images, drawings², sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.
- National Core Art Standards.MU:Cr1.1.PK
With substantial guidance, explore and experience a variety of music.
- International Society for Technology in Education Standards for Students, Empowered Learner. 1.1c Feedback to Improve Practice
Students use technology to seek feedback that informs and improves their practice and to demonstrate their learning in a variety of ways.

STEPS TO COMPLETE THE ACTIVITY:

1. Invite students to meet at the whole group sitting area carpet. Ask students what they already know about music. Create a concept web map together about music. (*see example*):





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Explain that music can sound all different ways depending on the style whether it is fast/slow tempo or played with certain instruments. This is called **genres**. Ask if they know any **instruments** and explain definitions with examples if needed. *Show real instrument examples if available and allow students to touch or try to play on a few if possible!*

2. Tell students they are going to sing and dance as they learn about 3 different types of genres with interactive songs on these youtube links:

Country – explain definition, listen to this song example:

<https://www.youtube.com/watch?v=w6r4E514nJg>

Hip Hop- explain definition, sing and dance along with this example:

<https://www.youtube.com/watch?v=BQ9q4U2P3ig>

Rock – explain definition, dance along with this example:

<https://www.youtube.com/watch?v=0W-T4kdgzKU>

3. Allow students to get a quick water break after all the singing and dancing and meet back at the carpet. Tell students to talk to a buddy about which genre they really liked and why.

4. Explain that you know a special friend that uses music to help him learn to add and subtract (just like we are today!) and we read about him a lot! Allow students to guess who it could be to build anticipation. Then pull out Pete the Cat stuffed animal and book, *Pete the Cat and His Four Groovy Buttons*, to show the class.

5. At this time, since this will be a review lesson on adding/subtracting, review these concepts by explaining that **addition** means joining together, or getting more (make a plus sign with arms). Then review and explain that **subtraction** means to separate or take away (make a minus sign with your arm and pretend to grab something with that hand while you make a grabbing motion with your hand). *See examples below:*

Addition



Subtraction



6. Hand out buttons to students to sing along and act out the book *Pete the Cat and His Four Groovy Buttons*: <https://www.youtube.com/watch?v=py8h1Q3UIbY> . Then ask students what kind of genre they think Pete's song is and why?

7. Tell students they get to create their own song (like Pete did!) with whatever genre they want as they play and practice adding and subtracting buttons. Ask them what genre they might want to use and review genres learned as needed.



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8. Provide an example of how you can have any number of buttons to start your song and sing in a slow twangy country-style voice (don't worry about pitch right now and overemphasize the twangy sound that will produce some giggles from your students):

“My buttons, my buttons, my 2 blue buttons and my buttons, my buttons, my 3 red buttons that makes buttons, my buttons, my 5 total buttons!...”

Discuss with students about what genre you used and why you thought it was Country (slow).

9. Students can sing their song with just their voice, or they could use items around the room for instruments such as tapping pencil on desk, stomping and clapping, etc.

If available, allow students to choose an instrument to help them create their song, or use the 123 music games app for composing. Walk around the room as they compose their songs and be ready to help if struggling with the adding/subtracting and check for understanding.

10. At the end of the lesson, ask if anyone wants to share their song about addition/subtraction with the class. Model how to listen quietly to the performance and clap for them when they are finished. Encourage them to tell the genre they picked and why they think it is that genre (did they clap with a heavy beat for rock, did they sing it slow like a country song, etc.)

VOCABULARY:

Instrument – something that is used to make music (guitar, piano, drum, even your voice!)

Music Genres – styles of music such as hip hop, country, classical, and rock

Hip hop - a type of popular music with a strong rhythm in which the words are spoken rather than sung

Country - a form of music that usually has a mixture of ballads and dance tunes played characteristically on fiddle, guitar, steel guitar, drums, and keyboard.

Rock - Music that has a heavy beat

Subtract- separate or take away

Add – join together