Music as a Management Tool in Elementary Physical Education: A Qualitative Investigation

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Music as a Management Tool in Elementary PE

Abstract

Classroom management is an important aspect for a K-12 teacher in any content area. The same applies in physical education (PE). In PE there are large spaces, students are moving, and in many cases, equipment (basketballs, rackets, hula hoops, etc.) is involved. Thus, making PE a unique challenge in regard to classroom management for PE teachers. One tool an elementary PE teacher can use for classroom management is music. For this study, one school administrator, 19 elementary-aged students and one PE teacher were interviewed to better understand their perspectives of music as a management tool in elementary PE. Findings indicate that students prefer music as a management tool, then the PE teacher using a whistle or loud voice.
For many K-12 teachers, the aspect of classroom management can be a major concern for them. They may have a student or a number of students in their class (es) that make teaching difficult for them and challenging for the other students to learn because of student misbehaviors during class. This may also be true for those that teach physical education (PE). For PE teachers regarding classroom management they have to take into account students being in a gymnasium, out on a large playing field, or in a weight room. There is also equipment, such as basketballs, rackets, weights, cones, jump ropes and a multitude of other equipment they have to manage so that students don’t hurt themselves or their classmates, and still learn as they are interacting with the equipment. Then there is the element of students moving during games or activities. All these examples and more are typical situations of classroom management in PE. Classroom management has been defined as “organizing and controlling the affairs of a class. It refers to how students are organized, started and stopped, grouped and arranged during class (Pangrazi & Beighle, 2013, p.98).

The literature has highlighted the importance of classroom management at all stages of a PE teacher’s career. This was illustrated when Physical Education Teacher Education (PETE) majors participated in a semester long elementary PE practicum (Barney & Pleban, 2006). For this study PETE majors were interviewed before (pre) they participated in their practicum and interviewed again after (post) they completed their elementary PE practicum. In both the pre and post interviews, classroom management was one of the main areas of concern in their teaching. During the pre-practicum interviews many of the PETE majors were concerned with controlling the students and keeping them on-task during class activities. In the post-practicum interviews students felt that when students were on-task their classes were well managed. One student
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stated that at the end of her practicum her classroom management skills got better, but she still
worried about classroom management when she would be student teaching and eventually
teaching her own classes. These concerns regarding classroom management can be in the
forefront of many PE teachers mind.

With the importance classroom management can play in the PE context, PE teachers can
use specific methods to manage students. For example, PE teachers can use their whistle, can
split up students that are misbehaving, and use consistent start and stop signals to manage their
students (Pangrazi & Beighle, 2013). Another method of classroom management a PE teacher
can implement is the use of music. The literature has primarily investigated the implementation
of music in PE to increase student activity (Brewer, Barney, Prusak, & Pennington, 2016; Barney
& Prusak, 2015 & Deutsch & Hetland, 2012) and student enjoyment in PE class (Barney, Pleban,
& Gishe, 2016). When conducting research with music in a physical activity (PA) context
Karageorghis, Jones, and Low (2006) created a conceptual framework. Four tenants make up
this framework, they are: a) rhythm response, b) musicality, c) cultural impact, and d)
association. Rhythm response refers to musical rhythm most notably tempo. Tempo refers to
the speed of music as measured in beats per minute (BPM). Musicality refers to the responses to
pitch-related elements such as harmony and melody. Cultural impact refers to the perverseness
of the music within society. Association refers to extramusical associations such as emotions
that a piece of music may evoke (Karageorghis, Jones, & Low, 2006). Karageorghis, Terry and
Lane (1999) presented this conceptual model using these four factors to predict the effects of
asynchronous (i.e., absent of conscious synchronization between physical movement and
accompanying musical rhythm such as background music) motivational music in the context of
exercise and sport.
Limited research has taken place regarding music as a management tool in PE. Yet, there are studies that allude to music as a management tool. Harms and Ryan (2012) discussed using music to enhance PE. The researchers observed four different elementary PE classes that used music as a management tool on a regular basis. For the first two classes, the PE teacher used the music to start and stop students throughout the lesson. No majors problems were observed in these two classes. For the final two classes the researchers asked the PE teacher not to use music as a management tool. The researchers noted that the PE teacher was hesitant when asked not to use music in the lessons. For the last two lessons the researchers observed more off-task behaviors, because no music was being played and many of the students were upset and angry because no music was being played. The researchers suggest that music has positive effects when used as a management tool in PE class. A second study investigated PE teachers’ perceptions of incorporating music in PE lessons and to evaluate the influence of music on the classroom environment (Barney & Pleban, 2018). For this study 26 K-12 PE teachers were surveyed. The survey consisted of open-ended questions requiring the PE teachers to explain their responses to the survey questions. After analysis of the survey questions the following themes were apparent. They felt they were putting students in a better position to learn the content, that music helped provide a positive class climate, and music served as a motivational tool. Yet, one of the main themes resulting from this study, was music played a part as a management tool. Many of the PE teachers stated that music was a positive tool to assist with classroom management. One of the PE teachers stated, “Instead of screaming and being loud to get the class to focus, I stop the music to get attention. The sudden silence of no music gets their attention quickly.” Another PE teacher stated, “When music starts, students start activity. When the music stops, students stop and look at me, or students put away equipment and rotate etc.
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Music make signals and students immediately recognize it.” The results from both of these studies dealing with music as a management tool, highlights music having a positive effect in aiding PE teachers to manage students during class activities. The results from these studies are positive, still there is a paucity of research dealing specifically with music as a management tool in elementary PE class. Thus, the purpose of this study was to investigate music as a management tool in elementary PE from the perspectives of a school administrator, the PE teacher and elementary-aged PE students.

Methods

Participants and Setting

For this study, 19 elementary-aged students (7 males and 12 females), 1 female PE teacher (9 years of teaching experience), and one male school administrator participated in the study. The school that the participants came from was a public charter school located in the Pacific. It has a student population of approximately 330 students (PK-6). Ethnic breakdown of the student population was 61% Caucasian, 22% of two or more races, 9% Hispanic, 7% Hawaiian and 1% Asian (Public School Review, 2020). University Institutional Review Board (IRB) and the charter school gave approval to conduct the study. Parental consent as well were obtained before the study proceeded.

Procedures and Data Collection

On the day of data collection, the researchers interviewed at the school, the school administrator, the students and the PE teacher. The interviews took approximately 15 minutes in length. The interviews were semi-structured and were audio-recorded. The interview questions were different for the participants. Students that were interviewed were randomly selected. The
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Interviws were designed to get the participants opinions and experiences relating to music as a management tool in elementary PE.

Interview Data Analysis

For the analysis of the interviews, participant responses were correlated and reviewed to generate preliminary coding categories, with framework analysis methodology for participant responses, as outlined by Check and Schutt (2011). Framework analysis incorporated the stages of 1) familiarization, 2) thematic, 3) identification, and 4) charting and interpretation (Rabiee, 2004).

Music as a Management Tool in Elementary PE Themes

Investigators read and re-read interview transcripts, identified themes and phrases. From all survey responses, the most frequent management content themes were 1) Start and stop signals, 2) Music is preferred rather than a whistle or a loud voice, and 3) Music stops, students are given instructions (see Table 1).

Results

Start and Stop Signals

From the interview data, the use of music as a start and stop signal was a common and constant theme. Mike (school administrator) stated:

“She uses it as a stop and start signal. A good management tool. Also, when Lori (PE teacher) has a substitute, they follow her lesson and when they (the substitute) play music the children do as they are supposed to do with the music playing. In large part because of what they do every day in their class.”

A number of students that were interviewed stated when the music starts, we “get moving” and “when the music stops, we stop.” Mary stated, “When the music starts you start to do what she
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tells you. For example, start skipping when the music starts. The class skips.” Sally stated,
“When the music stops, we freeze. If we have equipment, we put it down as we freeze.” And
Julie said, “I like the music to start us going. It is better than her blowing her whistle.”

Music is preferred over a Whistle or Loud Voice

The second theme from the interviews dealt with the PE teacher not using a whistle or a
loud voice for management. Casey was asked if Miss L. uses a whistle to start and stop the class,
he said, “She used a whistle one time because the speaker wasn’t working. The next day, the
speaker was working. I like the music better.” Lilly made the same observation as Casey did
regarding the speaker not working. Lilly said, “I like the music so much more. The day the
speaker wasn’t working, that wasn’t good. I don’t like the whistle.” Beth stated that “I have
gotten used to hearing the music. When the music starts, I get going. And when the music stops,
I stop and face Miss L. When she doesn’t use the music and uses a loud voice, I am surprised.”

Lori was asked if music as a management tool has made her life better as she teaches PE. She
stated:

“I don’t use a whistle. I hate whistles. When the music stops, the kids stop and so I don’t
have to speak as loud. It saves my voice. Because of this I have learned to give short and
concise instructions to the kids.”

Music Stops, Students are given Instructions

The final theme from the interviews was when the music stops, students are given
instruction. Emily said, “Miss L. tell us what she wants us to do when the music stops. She
doesn’t want to waste time, and we move from one activity to another quicker.” Steven said,
“When the music stops, Miss L. gives us instructions on what to do and what not to do. When
the music starts, we do what she told us to do.” Paul said, “When she turns on the music, we

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have to be ready. And when she turns off the music we have to freeze. She wants us to listen to what she says.” John stated it a little differently, but with the same intent when he said, “The music helps me focus on what Miss L asks us to do. So, I don’t think of other things.”

Lori said:

“When I do jump rope for heart the parents see how I use music. That when the music stops, I give them their instructions for activity. I turn on the music and they do the activity. The parents see their children have been conditioned to the music and how they respond to it. The parents only say how much they like the kind of music I play. But, it shows the parents that when the music is off I will give their children instructions on what I want them to do.”

Discussion

The purpose of this study was to investigate music as a management tool in elementary PE from the perspectives of a school administrator, the PE teacher and elementary-aged PE students. The results from the interviews from this study found music as a management tool in elementary PE to be effective and preferred. Three themes came from interviews with a school administrator, elementary-aged students and an elementary PE teacher. The themes were: 1) music used as a start and stop signal, 2) music is preferred rather than a whistle or loud voice for management, and 3) when the music stops, students are given instructions.

It was generally found that music is an effective tool for elementary PE teachers to use to manage their students. Also, from the student perspective they like the music. When looking at the themes closer, the first being the music as a start and stop signal helps set the environment for the given class and lesson. For many students in elementary PE they have been in their classrooms studying math, science, social studies or other content. The question can be asked,
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how have they been studying? They have been sitting at their desks. When students come to PE class the PE teacher will start and stop the students two or three times. This gives the students a chance to quickly warm-up the muscles, but it also gets the students to start and stop when the music is played and when it stops (Pangrazi & Beighle, 2013). This gets students thinking about things that are physical in nature. Barney and Pleban (2018) interviewed K-12 PE teachers dealing with music in their PE lessons. In one of the interviews a PE teacher stated, “When music starts, students start activity. When music stops, students stop and look at me, or students put away equipment and rotate etc. Music makes signals instant and students immediately recognize it.” Krystosek (2003) observed that students in PE classes without music were off task more than students in PE classes with music playing. Thus, frequently reminding students to stay on task. This only creates more unnecessary work for the PE teacher. From this study, one student said, “When the music starts, I need to be moving, and when the music stops, I need to stop and face Miss L.”

The second theme was music was preferred rather than a whistle or loud voice for management, this can affect both the students and the teacher. For the students from this study they preferred the music then hearing a whistle or the PE teachers loud voice. During an interview with one of the students, they were asked if they preferred the music a whistle or a loud voice. The student replied, “the music.” The student was asked why. She stated, “The music is much more fun, and the whistle isn’t fun. If Miss L. uses a loud voice, sometimes it sounds like she is yelling at us.” Ryan (2009) studied the effects of a sound-field amplification system on managerial time in a middle school PE setting. The results indicated that the field amplification system reduced managerial time used in class, resulting in more instructional and activity time during class. Yet, the researcher concluded that with the aid of a sound-field
amplification system it will help with PE teachers voice fatigue, which can be troubling for them (Gotass & Starr, 1993; Masuda, Ikeda, Manako, & Komiyamas, 1993).

The final theme was when the music stops, students are given instructions from the PE teacher. When analyzing the interview data from this study, Casey was asked why listening to the music is important. He stated, “You can do what Miss L. asks you to do.” Other student comments regarding the importance of listening to the music was, “She gives instructions”, “We do what Miss L. wants us to do”, and “She tells us to do a task when the music starts.” Harms and Ryan (2012) found that when the music stops, students will stop, look and listen to the teacher regarding their activity. When Barney and Pleban (2018) interviewed K-12 PE teachers, one of them said:

“If implemented correctly, music can be used to manage the classroom by giving the students cues on what to do when they hear the music stop or when they hear the music start. If not implemented correctly, many classrooms can turn into a zone of poor management.”

The conditioning of students in PE class to listen and then follow instructions may seem over simplified. Yet, this simple skill of listening to instructions will serve the student well in their education and then throughout their life in general.

**Conclusions**

This study investigated music as a management tool in PE class. Because of the paucity of research dealing with the topic, this study only helps strengthen and add to the literature. Results from this study appear to coincide with the limited literature in regard to music as a management tool in PE class. Pangrazi and Beighle (2013) stated that music as a management tool is effective with elementary-aged students. The authors continued by saying, “managing
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student behavior is not easy. A class of children is a group of individuals, each requiring unique
treatment and understanding” (p.98). With the challenge of working with a variety of
personalities, some more challenging than others, music can be used in teaching simple, yet
important skills, that when learned and followed will benefit the student and have the potential to
affect their learning in PE class. Barney and Leavitt (2019) feel that music helps create a
positive environment, and when using music in the capacity of management there is the
possibility of continuing the positive environment in the PE class.

Study Implications

The implications of this study have the possibility of benefitting current elementary PE
teachers, PETE majors and PETE faculty. As illustrated from this study elementary PE teachers
can successfully implement music as a management tool. During the interview with Lori she
stated, “It is pretty instantaneous with music when teaching students management. It is a matter
of being consistent and doing it every day.” For PETE majors, they need to understand and
experience that music can be an effective management tool and should be implemented during
the elementary PE practicum and student teaching experience. For PETE faculty they can
introduce music as a management tool in their methods of teaching elementary PE. Then when
the PETE majors go out to elementary school and teach, the PETE faculty can encourage and
help them to see how music can benefit and strengthen their management as they teach. When
interviewing Lori, she mentioned that in her undergraduate program she was introduced to the
concept of music as a management tool by one of her professors. From there she used music in
her practicums, student teaching and now in her own PE classes. For the PETE faculty the use of
music as a management tool can be discussed in class, modeled to the students before they
participate in their elementary PE practicum, and go to the elementary school during the
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practicum to observe the PETE major teaching with music. Then sitting down with the PETE major to discuss their classroom management experiences with music.

**Study Limitations**

A limitation of this study is the inability to generalize these findings to other elementary schools in the other parts of the United States. Because of the use of a sample of convenience from one elementary school PE program, further generalization of this data must be approached with caution. Further study should be done using multiple elementary school PE programs at different schools and in different regions of the United States to explore the reproducibility of the process and findings.
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References


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Krystosek, K. (2003). *To have music or not to have music in elementary physical education: That is the question.* Unpublished manuscript.


**Table 1**

Interview Themes Regarding Music as a Management Tool in Elementary PE

<table>
<thead>
<tr>
<th>Interview Themes</th>
<th>Comments</th>
</tr>
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<tbody>
<tr>
<td>Start and Stop Signals</td>
<td>“When the music starts, we get moving, and when stops we stop”</td>
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<td></td>
<td>“When the music stops are eyes are on Miss L.”</td>
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<tr>
<td>The PE Teacher Doesn’t use a Whistle or</td>
<td>“I like the music so much more. The day the speaker wasn’t working wasn’t good.”</td>
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<tr>
<td>a Loud Voice</td>
<td>“I don’t use a whistle. I hate whistles.”</td>
</tr>
<tr>
<td>Music Stops, Students are Given Instructions</td>
<td>“Miss L. tells us what to do when the music stops. She doesn’t what to waste time.”</td>
</tr>
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<td></td>
<td>“When the music stops, Miss L. gives us instructions on what to do and what not to do.”</td>
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