



## Technology-Based Learning of Music Arts for The Development of Elementary School Students

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### Abstract

Advances in technology impact the learning process, especially in the art of music in elementary schools to support the delivery of material. The method used is literature study research with various scientifically valid steps. The concept results from the findings of this study aim to foster a creative, innovative spirit and train the development of students through learning the art of music based on technology that influences the way of mastery learning; studying the art of music has many benefits for students, with the art of music students can channel their talents and interests, as well as creativity, this is inseparable from the influence of teachers who can create innovations and creations in the learning process.

**Keywords:** technology, music, learning, teacher's role

### INTRODUCTION

Education is an integral part of human survival in the world. So that every country tries to improve the quality and competence in education because advanced education impacts the progress of a country's development. Education can make humans more competent and have character (Irawana & Desyandri, 2019).

It is undeniable that in today's digital era, most of them use technology, with the existence of digital technology it can help us in our activities and help us save time. Of course, this increasingly

sophisticated technology can have positive and negative impacts; in its application in the world of education, especially in elementary schools, there must be assistance from teachers to practice making the best use of technology. In the presentation delivered by Efendi (2019) on digital technology, it is hoped that quality and creative human resources will be created to meet the nation's sustainability because now we are entering the era of digitalization with the existence of learning technology that can be done anywhere. This is closely related to art learning, where easy access

to information technology helps children explore their understanding of the art of music.

Art is an essential part of education, with art education, especially the art of music, can help build children's character through national education goals. Music also plays a vital role for children because it positively affects their development and growth (Alhadi & Saputra, 2017). Having music affects increasing children's intelligence and memory because it is influenced by the fact that when listening to songs, children's brain cells are more active, memorizing song words and confirming themes; apart from playing musical instruments, children can also train motor skills, skills and hearing so that they can train coordination between different senses.

According to previous research related to aspects of art learning by (Sutisna et al. 2017), the process of learning arts must involve three factors, the first includes psychomotor elements, the second is about cognitive aspects, and the third is about compelling aspects, with these three aspects it is expected to create the core of learning objectives, this is because these three aspects are very influential for developing children's abilities to acquire knowledge. Meanwhile, Irawana & Desyandri (2019) believe music education is essential because, with music, children can learn national songs to understand diversity's importance.

With music, you will know a child's character and the differences in personality in children will be seen and formed by themselves. For example, by listening to music, someone who likes music with a soft and slow genre indicates that the child has a gentle character, in contrast to children who like rock or loud music genres, which

suggests that the child is active and enthusiastic. Another way is to explore songs that are not yet known; in this way, you can discover how dynamic and creative children are searching for and digging deeper into music. Even so, this method cannot determine a child's character because, at this time, elementary school children are just looking for and forming their identity. According to the opinion of Respati & Fuadah (2018), music learning trains children to develop children's expression, creativity, and appreciation in determining their identity.

Technology and art cannot be separated in today's era, especially music; in digitizing information, there is a lot of knowledge about music in it; with collaboration between technology and the art of music, it is hoped that elementary school children can learn to find, know, identify, and explore music, of course with the supervision and guidance of teachers at school, learning music can also be made at home with the assistance of parents, that way children become more enthusiastic about learning because, in digitalization, especially music, there is a lot of music, such as regional and national songs in the form of videos and pictures, as well as musical instruments not only in the form of images that cannot be heard, now they can be in the form of videos that make elementary school children more happy and interested in music. This is expected to foster children's creativity and character.

## METHOD

This article uses a conceptual research design of a literature study to provide direction and focus in explaining abstract data, data analysis, and data presentation. The literature study approach is a series of scientific activities

related to collecting library data, literacy, data recording, and data processing (Zed, 2008). They are ordering data by searching for theoretical concepts and analyzing various previous studies to be dialectical in the scientific process, as for research procedures through literature studies, data collection, concepts studied, data analysis, results, discussion, and conclusions. The research flow can be clarified in the following Figure 1.

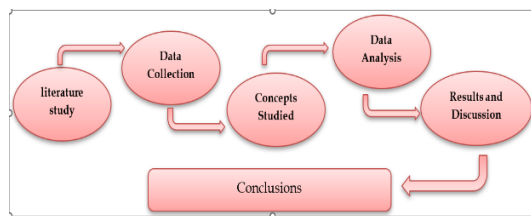


Figure 1. Research Flow

## RESULT AND DISCUSSION

This article describes art and technology learning, the role of technology in learning music arts, technology-based music arts learning activities in elementary schools, the benefits of learning technology-based music arts, and the role of the teacher in learning technology-based music arts in elementary schools.

### Arts and Technology Learning

At present, the Indonesian nation is facing problems, especially in the world of education, especially in the quality of education, which compared to developed countries, is significantly lagging; this can affect human resources, which are low and, over time, will be left behind from more developed countries (Pangestu & Rochmat, 2021).

The development of time goes by; the Indonesian nation is facing rapid technological developments due to digitalization; with the influence of technology, especially in the world of education, must be able to adapt to

current technological advances; the increasingly developing world of digitalization requires teachers to optimize this opportunity by applying children's learning methods to build a character that is useful for the country, it is hoped to create students who have personality and have a spirit of nationalism to meet progress with Pancasila student guidelines. (Rusnaini et al., 2021).

Efendi (2019) explains that the purpose of education today is to create quality human beings who compete globally; with digitalization, learning is growing and can be done anywhere, not only at school; this indicates more open access to learning in the digitalized world.

Discussing education in schools is inseparable from the existence of art; art is a place for human expression, and creation poured into works that can be implemented and channeled to other people. Art is inseparable from music; the art of music is a work created by humans to be enjoyed through the medium of sound; with the art of music, children can develop their talents and interests to express them through music. With the advancement of technology, educators are expected to be able to apply and implement it into art learning, especially music (Irawana & Desyandri, 2019).

The learning that we usually do is by presenting cognitive material; students will eventually get bored and inefficient because this learning focuses on memorization only, and after that, students do not bring changes in themselves. Learning is the process of change in children to form good character and personality; in elementary school, students will find their identity to continue to a higher level; with this,

educators must be creative and be able to make teaching changes.

The learning process consists of educators, students, and advice and infrastructure, with adequate guidance and infrastructure will create a comfortable atmosphere; according to the presentation of Daryanti et al. (2019), the purpose of educators is when children try to be active in achieving what they want, children's activities must be continuous between the body and psychology, children will be said to fulfill their learning goals when physically and mentally mutually interconnected. In other words, it is hoped that children can independently find out about music because learning the art of music is an integral part of forming the personality and development of students, as well as helping in the growth of intelligence, socialization, emotions, and thinking.

### **The Role of Technology in the Music Arts Learning Process**

In the application of information technology to the art of music, teachers, especially in elementary schools, must be able to understand the positive use of technology; this aims to print children's characters that are based on Pancasila to build the nation and be able to compete for the future. In art learning to not become bored and bored, learning media is needed, such as laptops and projectors. Teachers can play videos about regional and national songs so that children can be interested in music and invite children to find out and learn about music as much as possible about regional and national songs by searching the internet, with this the learning process carried out by educators is varied and not boring.

Based on the presentation submitted by Desyandri et al. (2020), in the process of learning the art of music, educators

must be able to creatively choose and even create media and methods in the learning process; educators are expected to be able to develop their knowledge in the process of music lessons taking place. In addition, the competence of educators, such as communication skills, knowledge about the present, and learning strategies, is needed because learning music arts will run smoothly by learning objectives.

Several elements are contained in the art of music, including melody, time signature, rhythm, tempo, scales, harmony, timbre, dynamics, notation, and expression. Here the teacher can provide creative learning by inviting children to find out as much as possible about the elements of music; it is hoped that students will be able to explore and find out about the details contained in the art of music. After the child finds out for himself, the teacher invites his students to write the results of the search on the blackboard, that way, other students will understand, and if something is missing, other students are welcome to add to the answers written on the blackboard. This is done by the teacher so that children can develop and be creative. After sufficient, the teacher will add parts lacking regarding the material presented.

There are various ways to train children to be more creative and innovative through learning the art of music because the skills of music are of multiple types and forms, music itself over time, poets and songwriters develop themes according to the genre of music itself and the audience, and is divided into several categories such as traditional, modern, and contemporary music.

Traditional music is the ancestors' legacy, and its authenticity remains. In traditional music, they still use traditional instruments, such as traditional music from Java, namely Javanese songs that

use gamelan instruments, gongs, etc. Modern music is more universal and is played using several modern instruments as accompaniment.

Meanwhile, contemporary music has the characteristics of classical music, where the tone variations are more complex and use sounds that are not only instrumental.

### **Technology-Based Music Art Learning Activities in Elementary Schools**

Music art education in schools aims to provide children with musical art experiences to shape the character and development of children. In music learning, educators must be creative and innovative so that they are not bored in class. Technology can be used to support success in learning the art of music.

For example, suppose a child is shown pictures of musical instruments. In that case, the teacher gives the task to the child to dig deeper and identify these musical instruments by searching and collecting analytical data from these musical instruments. This aims to improve the development and understanding of children.

Playing musical instruments also affects motoric development in elementary school children; playing musical instruments can be combined with technology as before playing the musical instrument, students are shown videos about the sounds of musical instruments that students will play; that way, students, especially in elementary schools will be curious and will stimulate higher curiosity, the higher the child's interest, the more their soft skills will develop. After watching a video about playing a musical instrument, students try to play the instrument; here, the process of remembering the tone and rhythm of the sound of a musical

instrument will be implemented in playing a musical instrument.

In music education implementation, the teacher shows video songs, for example, folk songs, here children can watch, see, and listen to songs played by the teacher; this learning process is more effective than song notes in books where children do not understand the lyrics and tunes, a learning process like this will increase children's enthusiasm to learn music and explore music.

In addition to singing, children are also taught tones so that they know the pitch of the style; this is so that the child understands the techniques in a song; in the learning process, the teacher will play a video about the pitch of the pitch, that way the child will understand and be able to understand the tone, learning like this will affect the level of brain sensitivity in children.

Making song lyrics is one way to foster creativity in children; in the learning process, students are shown videos of several regional, national, and children's songs, then the teacher makes several groups to make songs; this process is carried out with the aim of students having a spirit of responsibility in groups, as well as to learn to socialize with friends, the assessment made is not whether the songs are good or not but the process of togetherness and cohesiveness within the group.

### **Benefits of Learning Technology-Based Music Arts**

Learning the art of music has many benefits for students; by studying the art of music, students are increasingly developing in terms of creativity, creation, and innovation, as well as helping with memory, coupled with video songs played by the teacher will

add enthusiasm and curiosity and deepen about music.

In addition to the benefits of playing musical instruments, students will be more enthusiastic and able to train motor skills and ear sensitivity, coupled with before playing a musical instrument, students are shown a video of how to use a musical instrument that someone plays after seeing and understanding about the use of musical instruments students understand about its use, different from just looking at pictures in books where students do not understand and will be confused about the sound of musical instruments in pictures in books.

Other benefits obtained by learning technology-based music arts are:

1. Growing a creative soul in students because, with music, their creative soul develops
2. In the art of music helps students more easily understand and memorize because, in the process of learning art, it is combined with playing videos about music to understand better and remember in the learning process.
3. learning art in groups in making songs will create social skills and foster a sense of responsibility in organizing in the future.
4. The art of music will help students grow their character and personality.
5. From the art of music can build a child's mentality to be more courageous in expressing his expression.

The impact of children's technology-based music art learning is also beneficial for teachers because, in the learning process, the teacher changes the previously monotonous understanding; after technological developments, the teaching carried out by teachers is more creative and innovative.

### **The Role of the Teacher in Learning Technology-Based Music Arts in Elementary Schools**

The process of learning the art of music is inseparable from the influence of the teacher; the teacher is a facilitator who provides all material related to music, besides that the teacher also plays a role in creating a conducive learning atmosphere; the teacher is also an essential influence in the learning process to guide students to become children with character and become the nation's successors.

In addition, the teacher also plays a role in creating media and methods of learning so that the learning process is not passive; in the process, the teacher makes technology-based learning methods by displaying various videos about music; this is done by the teacher so that children can better understand learning, the teacher also provides facilities for children to express children's abilities in the learning process, with music the teacher can know the character and personality of the child.

### **CONCLUSION**

The art of music and technology cannot be separated; in the very rapid development of technology, educators are required to be able to adapt to the times; educators, especially in elementary schools, must be able to use technology to support learning, in learning technology-based music arts helps students in the process of understanding and also adds to students' insights, with the existence of technology, students are no longer dependent on books containing pictures and musical scales, the learning process is more creative and innovative, such as playing songs and showing pictures through a projector. Important in the learning process, such as preparing all

material about music, facilitators, creating a learning atmosphere for students to express their abilities, playing a role in creating creations and innovations, and influencing the character of students.

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