

# The Application of Sensory Synergy in Children's Art Education

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**Abstract:** Art education is comprehensive and systematic, which contains great significance in children's growth. Aiming to the methods of improving children's art education, this paper proposes children's art education strategy based on multi-sensory synergy effect.

## 1. Introduction

As an important part of aesthetic education, the importance of art education can be seen from China's emphasis on aesthetic education through history. From Confucius's philosophy that highest personality will be achieved under the influence of music education to modern times Wang Guowei's proposal of combining aesthetic education with moral education and intellectual education, then to The aesthetic education should not be forgotten in the cultural movement written by Cai Yuanpei, a well-known educator, all indicate the important role of aesthetic education in cultivating and shaping people. Entering a new era, Xi Jinping, President of the People's Republic of China, clearly presented that from the height of developing socialist builders and successors with all around development of moral, intellectual, physical, aesthetics and labor education, aesthetic education must be strengthened and improved so that the younger generation of the motherland can grow up healthily. In August 2018, President Xi Jinping also presented that it is necessary to strengthen the aesthetic education work in the reply to the eight old professors of the Central Academy of Fine Arts. To do a better job in aesthetic education, we should do more in virtue cultivation, taking root in the era of life and following the characteristics of aesthetic education to carry forward the spirit of Chinese aesthetic education and enable the young people of the our motherland to grow up healthily both physically and mentally.

## 2. The Importance of Children's Art Education

Children are the hope of the future, and it is necessary to strengthen children's art education. Art education plays a unique and important role in cultivating people with all-round development. The purpose of art education is to cultivate students' ability to have a sense of beauty, express beauty, appreciate beauty and create beauty, which will help to establish correct aesthetics during this process, create noble moral sentiments. Art education can not only stimulate children's deep national emotions, but also motivate children's rich imagination and extraordinary innovation power, thus promoting children's healthy growth and overall development. Therefore, art education is of great significance to children's growth.

### 2.1 An Important Part of the Overall Development of Children

Moral, intellectual, physical, aesthetics and labor are the basic norms for the quality of human beings as well as the goal of human social education. Therefore, the education of human society cannot be separated from the rules of moral, intellectual, physical, aesthetics and labor. It always were and always are, except that in the past, it was only a word of "moral" with different epochal character. After liberation, the nature of the state is different. The era of socialism requires a socialist method to education. Therefore, the Communist Party of China and the government have summed up this very general five-character education policy of "Moral, intellectual, physical, aesthetics and labor". The purpose of aesthetic education is to cultivate students' aesthetic, develop

their ability to appreciate beauty, create beauty, and cultivate their noble sentiment and civilized quality. The implementation and realization of aesthetic education are inseparable from art education. Therefore, art education is an important part of children's all-round development. Childhood is a period when human artistic talent begins to germinate. Grasping the artistic education of children during this period will have a multiplier effect. Through the art education, children can enhance their abilities to sense, appreciate and create the beauty of natural, life and artistic, as well as cultivate healthy aesthetic tastes and keen aesthetic perception. Make them love life, love art, and love all good things by enriching emotions. Therefore, art education plays an extremely important role in children's education. It is an important part of the overall development of children and an important means and ways to achieve the all-round development of children.

## **2.2 It is Conducive to the of Children's Healthy Personality**

Artistic creation is one of the best ways for children to build self-confidence, and they can get a free and happy experience in their creation. Art education can be used to discover and understand the unique personality of children and to influence and promote the formation of their healthy personality. The creative process and works can make children gain the feeling of satisfaction, which is an important source of personal accomplishment. Art creation plays an important role in forming children's self-consciousness and good moral quality.

## **2.3 It is Conducive to the Development of Children's Observation, Imagination and Creativity**

At present, the rapid development of society puts forward higher and higher requirements for people's creativity, which has increasingly become an important force for national development. Therefore, the cultivation of creative ability has also attracted the attention of many countries. It can be seen that creativity is of great significance to the growth of a person and even a country. Through children's art education and artistic creation, the imagination and association of children can be effectively stimulated; because a series of activities such as sense, performance, appreciation, creation and creation in art activities are relatively free, they are not restricted by objective natural laws. Without the limitations of reality and illusion, it can make people transcend time and space, life entities and non-living objects, which is an important way to cultivate imagination and creativity. Art education can be realized with a realistic, specific visible, audible, and touchable form, so that children's imagination and creativity can be expressed and achieved through the medium of art.

As mentioned above, children's art education plays an important role in the development of children and even the entire nation-state. Then, how to carry out international and future-oriented art education? How to promote children's imagination and creativity through art education? Multi-sensory collaborative learning emphasizes mobilizing students to obtain information through sensory channels such as sight, taste, hearing, kinesthesia and touch, to perceive things from different angles and levels. Children's perceptions of things are mostly gained through sensory experiences, so multi-sensory synergy and natural art of children have a natural relevance. The multi-sensory synergy theory can be used to guide the development of children's art education, and stimulate the interest of learning through the participation of children's multi-sensory, promote learning effects and achieve learning goals.

## **3. Sensory Synergy Theory**

The Czech educator Comenius pointed out in the "Great Didactic" that all knowledge begins with the perception of the senses. Gardner is a famous educational psychologist in the United States, "the father of multiple intelligence theory". He also mentioned that "only students can approach the deeper 'intelligent heart' in the process of contact with science, and to understand the world based on different perspectives, such teaching can be called successful teaching". Neurology believes that people acquire information through various senses during the learning process, form long-term memory and store it, extract it when needed. The process of student cognition is first a process of stimulation of various senses. It encourages students to acquire information through visual, taste,

auditory, kinesthetic and tactile channels by creating opportunities for movement of eyes, ears, hands, and body, to perceive things and understand things from different angles and levels.

The so-called “sensory synergy effect”, as the name suggests, is to mobilize the senses of the eyes, ears, mouth, nose and limbs so that they can all be stimulated by information, and to complete the perception, understanding and creation of things and information in a multi-sensory way.

#### **4. The Application of Sensory Synergy in Children's Art Education**

Children's art education needs to be a combination of sentiment education and spiritual education. Art education for the new century should avoid education with the aim of simple skill training, but should cultivate people's artistic appreciation, noble aesthetic sentiment through all-round artistic edification. Art education bears an important mission and responsibility in achieving the goal of improving aesthetic education and improving students' aesthetic and humanistic qualities. In childhood, the brain is developing. During this time, both new and vivid information stimulation is needed to develop intelligence, prevention and avoidance of fatigue. Children's art, dance, music and other artistic activities and creations have their advantages, which plays a positive role in promoting the comprehensive and healthy development of children.

Information and knowledge acquired by children is often accomplished through sensory experiences. Because children's level of cognitive development determines their understanding of things often lacks rational analytical skills, they usually need to rely on the simplest and most direct feelings to interact with the surrounding environment to achieve the purpose of learning. In the children's art education, multi-sensory coordination can enable them to stimulate and trigger different senses, attract their attentions, stimulate their interests, realize effective communications between art and the children, and realize the resonance of thoughts and emotions.

For example, in children's music education, the multi-sensory-linked teaching method can effectively improve children's music aesthetic ability, performance ability and creativity, and improve their comprehensive quality and core quality. Music education emphasizes learning in the areas of “sense and appreciation”, “performance”, “creation” and “music and related culture”. Multi-sensory collaboration in the educational process is an important means to strengthen the linkages between the fields and to reflect their unique connotations. Under the guidance of multi-sensory synergy theory, children are actively involved in the music experience in various forms, triggering their association and imagination. In all kinds of linkages, children's multiple senses are effectively activated and stimulated, and the beauty of music is deeply penetrated into children's minds through rich sensory experiences. Taking the song “Animal Speaking” as an example, digital resources and multimedia can be used to create an animal concert atmosphere, fully mobilizing children's auditory and visual feelings, allowing them to listen to what kinds of small animals appear in the songs; then imitating the rhythm, singing out, and combined with games that imitate small animals. This can effectively use listening, singing, playing games and other forms to mobilize children's ears, mouth, eyes, limbs and other multi-sensory synergies, allowing children to experience music in a multi-sensory and engaging event as well as the beauty, joy of body and mind that brought by music.

Coordinate application of multi-sensory is not only the purpose of art education, but also the multi-expression of improving the form of art education. The visual sensory experience is the most important form of experience. Visualized symbols such as color and graphic images can attract children's attention most directly and objectively, and stimulate children's enthusiasm and interest. But at the same time, it is necessary to fully consider the unique characteristics of children. For example, in the aspect of visual stimulation, children's characteristics should be fully considered. In terms of color, children are more inclined to sprightly, bright, contrasting to harmony and simple colors. At the same time, children like to use colors with higher purity and brightness. Therefore, in the art education, we should meet the emotional needs of children and respect the color choice, fully mobilize children's interest in color, improve children's color perception, and fully respect children's visual aesthetics. It should also be noted that children of different ages and genders have different preferences and perceptions of color. In the use of color, children's emotional needs should be fully

considered, and the contrasting relationship of colors should be used reasonably, starting from children's emotional needs to meet children's demand of athletics and creativity. The auditory experience in children's art education is to use the sound to stimulate the children's auditory system, so that children can obtain environmental information through hearing while they are visually experienced. Stimulating the senses through sound can compensate for the lack of children's ability to perceive visual symbols. In terms of touch, children are often curious about new things, prefer to touch them, and make themselves feel more directly through things through touch.

What needs to be specially mentioned is that modern information technology means provide rich and powerful technical support for children's art education with multi-sensory coordination. Take the current widely used interactive whiteboard as an example, it is the deep integration of information technology with computer technology as its core, and its organic integration and multiple interactions with the multi-sensory experience required for children's art education (including people to machine, people to people, resource to resource based teaching applications, etc.) has become a powerful assistant for children's art education supported by sensory effects. For example, the various software and hardware resources under the company of Seewo have a strong advantage in fully realizing the sensory synergy in children's art education.

## **5. The Application Principle of Sensory Synergy in Children's Art Education**

In order to fully mobilize children's learning potential in children's art education and better realize the purpose of it, the following principles can be used in its development:

### **5.1 Authenticity**

That is to ensure that children's art education activities are fully integrated with real life situations. Real scenes can ensure that the brain can often receive multi-sensory stimulation, because the brain will be more active and effective if the information is in the environment where as much sensory participation as possible.

### **5.2 Vitality**

Children's art education should provide as much teaching material as possible for the participation of multiple senses, enhance individual learning motivation and interest, enhance the participation of students in the classroom, and make educational activities more vivid and dynamic.

### **5.3 Individuality**

In the use of multi-sensory teaching in children's art education, it is necessary to consider the differences in students' current status, personality traits, hobbies, etc., and fully respect the individualized development of individuals.

### **5.4 Convenience**

The implementation of multi-sensory learning pursues convenience and ease, avoids complications, and allows students to participate in multiple senses in a natural way.

## **6. Conclusion**

Children have a natural need for art education. How to apply effective strategies to enable art education to help children improve their ability to communicate and satisfy their emotions through art, to make art activities their favorite, to learn to express their feelings freely, to express their inner feelings, emotions, enjoy the joy of using art to communicate with others, and thus gain a sense of spiritual satisfaction and pleasure are all problems that art education must solve and also can be the goal we pursued. Multi-sensory coordination is in line with children's art education rules and children's physical and mental development characteristics, and is of great significance in art education. The full application of multi-sensory collaboration in art education will definitely enhance the art education, making art education an important component of aesthetic education, and

helping the purpose of better and faster development of aesthetic education to truly reflect the goal from Cai Yuanpei's Aesthetic education should not be forgotten in the cultural movement:"I want to experience in the essence of Chinese culture, discover its sublimity, elegance and grace, gain emotional experience beyond the phenomenal world, and thus enjoy spiritual enjoyment, and realize the goal of transcending the beauty of time and space and the true meaning of life." So that art education can effectively undertake the enthusiasm of edifying and purifying the soul, improving the overall quality of the individual, and promoting the rapid development of the nation and the country.

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