# Research on Digital Empowerment of Children's Natural Education under the Background of the Double Reduction Policy

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**Abstract:** The release and implementation of the "double reduction" policy have brought effective means for macroeconomic regulation of education, and under the premise of the development of automated information technology, the depth of digital empowerment of education is constantly increasing, which also brings opportunities and ways to promote education in China. Research on digital empowerment of children's natural education under the background of the dual reduction policy, providing effective guidance for the development of children's natural education. By analyzing the connotation of children's education and the relationship between children and nature, a deep analysis of children's natural education was conducted, and an optimization path for digital empowerment of children's natural education under the background of the double reduction policy was proposed, further promoting the development of digital empowerment of children's natural education under the background of the double reduction policy.

**Keywords:** Double reduction policy; Digital empowerment; Children's natural education; Optimize the path

## 1. Introduction

In recent years, with the rapid development of digital technology, the digitization of education in China has become a trend of education reform. Empowering education through digitization can improve the teaching level of schools, especially in children's natural education. Digitization provides convenient conditions for children's natural education, enriches the teaching mode of children's natural education, meets the diverse teaching needs of teachers and students in children's natural education, and provides various interactive methods for children's natural education. In the context of the double reduction policy and digital empowerment, studying natural children's education is the foundation for cultivating children's ecological literacy and improving their quality. Therefore, this article studies the digital empowerment of children's natural education under the background of the double reduction policy.

## 2. Digitally Empowered Children's Natural Education under the Background of the Double Reduction Policy

### 2.1 Analysis of Children's Natural Education

#### 2.1.1 The connotation of children's natural education

Children's natural education is the education of their minds and cognition. According to the perspective of cognitive science, the body and mind are not binary opposites, but rather an integrated relationship. When children receive natural education, the interaction between the body and the environment creates their minds and cognition, which is also the theoretical basis of children's natural education. When children receive education, excessive neglect of physicalization is contrary to their natural physical and mental

development. Therefore, in children's natural education, it is necessary to pay more attention to children's interests and needs, fully tap into educational resources from natural life, and enable children to follow the laws of their physical and mental development driven by interests. The purpose is to help children better return to nature and the society they are in. Fully tap into the natural educational resources closely related to children's lives. With the significant progress of the times, natural educational resources have become more diverse. Natural educational resources not only exist in nature, but also in different spaces where children live.

### 2.1.2 The relationship between children and nature

Before conducting nature education for children, the educational subject needs to fully understand the relationship between children and nature, and the concept of children is the basis for understanding the relationship between children and nature. More precisely, the relationship between children and nature is closer than that between adults, for the following reasons: firstly, children have less consideration for their desires and interests in reality, and their empathy with nature is pure; Secondly, children have stronger vitality and vitality, as they possess more natural qualities, thus their connection with nature is closer. In summary, children are an indispensable part of nature, and the relationship between children and nature is close.

### 2.1.3 Analysis of Natural Education

On the basis of the connotation of nature education and the relationship between children and nature, analyze children's nature education. From a scientific conceptual perspective, nature is an objective existence relative to independent humans. From a cultural perspective, it encompasses the essential attributes of human nature. Children's nature education also has different goal orientations and content choices under different natural concepts. In the context of rapid social development, educational policies are constantly being updated, and the concept of children's natural education, which respects children's nature and conforms to the natural laws of children's development, has been proposed. Under this concept, children's natural education pays more attention to the inherent nature and nature of nature. Therefore, children's natural education is a naturalistic education. The naturalistic natural education for children belongs to an educational philosophy, while the natural education for children that emphasizes natural ecology is a form of education. There are certain differences in the content and value of natural education for children, but the two are complementary. Combining the concept of natural education for children with the form of education is the broad definition of natural education for children.

## 2.2 The challenges brought by digital empowerment to children's natural education

After empowering children's natural education through digitization, it has brought great development opportunities, but at the same time, it has also brought considerable challenges, because all changes are nurtured in conservatism, and each adaptation is accompanied by various maladaptions. The challenges brought by nature should not be underestimated. The challenges that digital empowerment brings to children's natural education are as follows:

(1) Digitalization empowers children's natural education, leading to diversified educational formats and a shift in teacher roles

After digitization empowers children's natural education, the internet has driven cross-border innovation in education, resulting in changes in the form and channels of children's natural education. The industry space created on the basis of the Internet has brought multi-level and multi type services to children's natural education. Children's natural education has gradually changed to a diversified format, but this type of education format has also led to the blurring of the boundaries of schools, the transfer of the focus of school functions, and the transformation of teachers' roles. When providing natural education to children, online education can be used. Children can choose their own time and place for learning, thereby enhancing their status as the main body. Although this fragmented learning method is beneficial for children to learn structured natural teaching content, their ability to learn independently is lacking, and learning natural knowledge without supervision is not effective.

(2) The widening of the digital divide in education has led to unfairness in children's natural education

After empowering children with natural education through digitization, some schools have access to advanced information technology, while others have limited opportunities to apply it, resulting in an education gap that gradually widens with the development of information technology. In today's children's natural education, linear logic is a common teaching thinking method, which pays more attention to the causal relationship of children's natural education. In the education form where the digital divide is gradually expanding, there is a lack of cultivating interdisciplinary comprehensive knowledge literacy in children's natural education, which leads to poor effectiveness in children's natural education.

## 2.3 The impact of the dual reduction policy on children's natural education

Since the introduction and implementation of the double reduction policy, it has achieved good results in reducing the economic and mental burden on families. The purpose of the policy is to strengthen school education, improve the teaching quality of children's natural education, optimize children's homework assignments, and improve the quality of children's after-school activities. While reducing the burden of children learning natural knowledge, it can also enhance students' comprehensive literacy and establish a good

ecosystem of children's natural education. Since the implementation of the "double reduction" policy, quality education has returned to the campus, and children's natural education is the key to quality education. Children's natural education can establish a correct view of teaching quality, achieve a child centered approach, promote comprehensive development of children, and transform the educational ecology.

## 2.4 Optimization Path of Digitalization Empowering Children's Natural Education under the Background of Double Reduction Policy

### 2.4.1 Update the new curriculum concept of children's natural education and add fun to natural education

Daily life is the source of children's natural education, and the curriculum of children's natural education should be based on children's actual lives, and carry out more practical children's natural education that is closer to life. Children spend most of their total time in school, and when carrying out children's nature education courses, it is necessary to integrate social and family life into the curriculum, so that children can gain more experiences in learning nature education courses. When updating the new curriculum concept of children's nature education, the content of children's nature education curriculum should be more life oriented, breaking through traditional teaching methods and children's learning age restrictions, experiencing different nature education projects together, and adding fun to nature education.

### 2.4.2 Strengthen the main battlefield of school education and establish a natural educational environment on campus

When children engage in nature education, it is necessary to strengthen the main battlefield of school education. The main space for children's learning is the school. When strengthening the main battlefield of the school, multi subject cooperation can be carried out to establish significant nature teaching courses. Children's natural education actually covers multiple disciplines, and subject learning is the main task of children. Effectively integrating natural thinking into various disciplines can establish students' values of understanding nature. Children's natural education also needs to be combined with school cultural construction and regional cultural characteristics. From the perspective of school culture and regional cultural characteristics, a natural teaching curriculum system should be established. While children learn natural knowledge, it is also conducive to inheriting local traditional culture.

## 3. Conclusion

The double reduction policy has brought new opportunities for the development of children's natural education. Under digital empowerment, natural children's education needs to become high-quality education. Different educational stakeholders need to work together to seize the development opportunities brought by the double reduction policy, and at the same time, exert the subjective initiative of different stakeholders to jointly promote the process of natural children's education, improve the effectiveness of children's natural education, and lay a good foundation for cultivating comprehensive quality talents. This article studies the digital empowerment of children's natural education under the background of the double reduction policy, and proposes an optimization path for digital empowerment of children's natural education under the background of the double reduction policy, providing direction for the future development of children's natural education and promoting its development.

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