Research on Home Interaction and Influencing Factors of Preschool Children's Science Education Based on Innovative Thinking Training

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Abstract: To cultivate children's good scientific quality, kindergarten education alone is far from enough. Parents'support and cooperation should also be obtained. Home interaction is conducive to the development of early childhood science education activities. Early childhood is the period when thinking is extremely active and desire for knowledge is the most exuberant. Early childhood educators should make effective use of this period to cultivate children's good thinking habits and qualities. Innovative thinking is the core of human intelligence and the fundamental boundary between human beings and animals. With innovative thinking, people can know themselves and others, know people, my relationship, and our relationship, and become the master of the world. The family is actually an important partner of the kindergarten. Kindergartens must respect parents in principle, obtain parental understanding and support, and allow parents to actively participate in preschool education for young children. We should pay attention to and actively guide the development of preschool children's innovative thinking ability.

1. Introduction

In recent years, preschool education has become the focus of education in China, and the government has formulated a series of effective measures and policies for it. More than once, the requirement of home interaction and cooperative coeducation has been put forward [1]. Thinking is the core of human intelligence and the fundamental boundary between human beings and animals. With thinking, people can understand the laws of objective things and change the world actively [2]. From a sociological point of view, educational goals reflect the expectations and requirements of society for children's growth and development. Home interaction means that parents use various opportunities to educate preschool children in science, and also participate in kindergarten science education activities under the design and arrangement of kindergartens [3]. And under the guidance of the kindergarten, carry out family science exploration activities. Early childhood is a period of extremely active thinking and desire for knowledge. Early childhood educators should make effective use of this period to cultivate good thinking habits and quality of children [4]. In particular, the cultivation of creative thinking ability makes it a scientific way of thinking.

Educational goals guide and govern the entire educational process. It must specify the content of the target, and specific terminology should be used to describe what the child should be able to do after education [5]. The decision-making problem of educational goals is a multi-disciplinary research field, and different disciplines explore educational goals from different perspectives. The family is actually an important partner of the kindergarten. Kindergartens must respect parents in principle, obtain parental understanding and support, and allow parents to actively participate in preschool education for young children [6]. Family science education is an indispensable link in preschool children's science education. Parents'understanding and participation in the interaction between home and home of science education directly affect the effect of children's science education [7]. Family science education has the characteristics of imperceptibility, individuality, randomness and occasionality. Families and kindergartens are closely related and complementary to each other in science education. Children's innovative thinking is in the embryonic stage. We should attach importance to and actively guide them so that their innovative thinking ability can be better developed [8]. Specific problems should be analyzed in order to form a preschool education model that is suiTable for our country's national conditions, such as home interaction and

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co-education.

2. Building Home Interactive and Cooperative Platform for Scientific Education Activities

2.1 Forming Home Interactive Education System in Accord with China's National Conditions

Science education is an education that trains scientific and technological talents and improves the scientific quality of the nation. The science education in the preschool stage is the initial stage and the basic link of the entire science education system. In the traditional preschool science education curriculum, the curriculum is relatively closed and presupposed. In the process of helping children, parents also felt the important role of science and technology education activities in the development of children's wisdom, and improved their understanding of kindergarten science and technology education activities [9]. If there is no teaching process based on diversity and richness in the course of teaching, it will be difficult for students to understand the teaching results and cultivate innovative thinking. Teachers should encourage children's unique and innovative creation and their curiosity, inquiry, knowledge and exploration spirit. If kindergarten science education can get close cooperation from parents, it can increase the effect of science education and enrich the content of developing science education. Parents are not only children's first teachers, but also kindergarten teachers'close partners. Home interaction can make full use of kindergarten and family's educational resources.

2.2 Combining Theory with Practice and Developing Together

The influence of family education on children's development is incomparable and irreplaceable in other educational environments, which is determined by the characteristics of parent-child relationship and family education itself. In preschool children's scientific education, effective home interaction can give full play to the important role of family in preschool education. To build a close contact platform between workers and families engaged in preschool children's science education. In establishing the goal of preschool children's science education, we must study the expectations and requirements of society for children's growth. The society's expectation for children's growth is directly reflected in the government's education policy, policies and regulations, and various related documents, as well as in the family's requirements. Teaching is the unity of the teaching of teachers and the learning of students. The essence of this unity is interaction and interaction. In the classroom, in the game, in life, the teacher should constantly ask the children some questions, and guide the children to think about various ways to solve the problem from multiple angles. In addition to using various opportunities in the family to educate pre-school children, parents should also participate in kindergarten science education activities under the design and arrangement of kindergartens.

3. Analysis on the Causes of Pre-school Children's Science Education Curriculum Dilemma

The effectiveness of teaching depends on the professionalism of the learner. To improve the quality of preschool children's science education, the first thing to do is to strengthen students' professional awareness. Teachers must not only have certain professional skills, but also rich knowledge of natural sciences and social sciences. It is also necessary to understand modern scientific information and focus on cultivating the initiative and innovative thinking ability of early childhood learning. In the process of cooperation in the home garden, everyone's goal is the same, all for the comprehensive development of young children, but the views of the two sides of the children's learning process are quite different. The development of students' professional emotions does not originate from Abstract classroom teaching and boring book knowledge, but from the fresh educational practice of kindergartens and the personal life experiences of students [10]. Teachers also guide parents to support children's inquiry activities in kindergartens in many ways, and dedicate various scientific and technological education resources in their families. Preschool children are at a stage of rapid growth. How to adapt to children with different characteristics, so that they can learn happily and grow healthily in this period. It is a very important topic in

preschool children's education.

Let the children do something by themselves, which can train the children's innovative thinking in practice. The accuracy of children's psychological and behavioral operation was tested under different integration scales. The average value is taken as the final classification accuracy. When constructing base classification, we should consider the storage and time overhead allowed in practical application to select the appropriate integration scale. As shown in Figure 1.

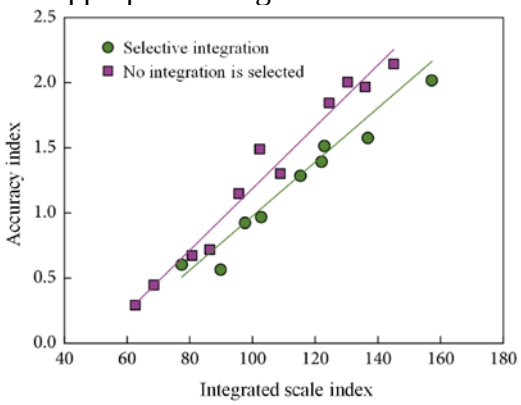

Fig. 1 Effect of different integration scales on the accuracy of children's psychological behavior

In the existing domestic research field, the theoretical review is far less than the experience level introduction. Therefore, our country's research in this field is very fragmented and there is no systematic system. With the continuous deepening of reforms, various new science and technology and ideas have been continuously introduced, disseminated and absorbed. Whether a person has sufficient scientific knowledge and ability to effectively learn and accept knowledge is seen as the main criterion for adapting to society. Self-reflection is one of the ways for students to examine and evaluate their effectiveness and suitability. Educational resources are not only items that can be brought to kindergartens in children's homes, but also spiritual feelings that children hold in their hands time after time. Only when students really regard the education of children as their mission can they consciously think positively about the events of children's science education in life and seek solutions. Family members should also regulate their own behavior. In the future research, we need to integrate the theory of Home S interaction in different fields and regard family as a regular and bounded system.

The results of using a single factor analysis method are often unreliable and should be avoided at work. The popularization and application of these technical knowledge is essential for preschool children to carry out psychological behavior guidance work. It is necessary to randomly select an initial node, and the initial node is different, and the accuracy of generating the final model is also different. The experimental results are shown in Figure 2.

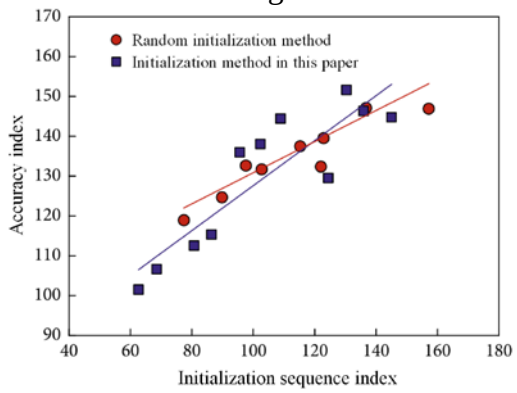

Figure 2 Different initialization sequence

From ignorance to awakening, from awakening to construction, the process of self-cognition and experience contains students'active exploration and self-understanding of education. In the classroom and life, teachers should not set up frameworks and patterns, but let children understand

the causality of the surrounding things through their own exploration. Preschool science education for children is a comprehensive course. There are not only preschool education knowledge, but also preschool psychology and natural science related knowledge. Transform and innovate existing models through school-enterprise cooperation. Effectively combine theoretical learning with practical operations to jointly cultivate high-quality applied talents. In the future development, we should study a complete system that is in line with China's basic national conditions and takes into account differences at home and abroad. Due to the wide coverage of home interaction research, research integration from different disciplines is required. Thereby achieving breakthrough development and forming better time guidance. Home interaction is difficult to conduct a comprehensive study with a single research method, so there is still a lot of room for development in the future development.

4. Conclusion

China's current home interaction system is still in the initial stage of exploration. Although it has achieved certain results, it is far from meeting expectations. Teachers should respect the innovative spirit and creative behavior of young children in their work, continuously study and study the theory of innovative education, and actively create an environment that fosters innovative thinking for young children. The parent's occupation is a window for young children to understand the society and can provide various support and services for kindergarten education. In addition, parents' different interests and hobbies can also be unexpectedly combined with all aspects of kindergarten work. The two-way effective interaction makes parents raise their awareness of education. They begin to re-examine their perspective of educating their children and change their ideas and methods of family education. The cooperation of home and kindergarten makes the development of scientific and technological activities in kindergartens form a joint force of education, enriches the knowledge of children, and lays a good foundation for the development of scientific and technological quality of children. It harmonizes the emotions between parents and children and develops children's comprehensive ability. In the future, the existing theories should be strengthened, combed and integrated. It also absorbs the viewpoints of different disciplines, forms diversified research methods, and forms an evaluation system suiTable for China's national conditions.

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