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# TEACHING PRESCHOOL CHILDREN TO THINK LOGICALLY

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#### **Annotation:**

Preschool education is a critical period in a child's cognitive development, providing the foundation for future academic success. While it might seem early to introduce complex concepts like logical thinking to preschoolers, research indicates that fostering logical reasoning skills at an early age can have profound and lasting effects on a child's cognitive abilities. In this article, we will explore the importance of teaching preschool children to think logically and provide practical strategies for educators and parents to implement in nurturing logical reasoning in their young learners.

**Keywords**: Preschool education, Logical thinking, Cognitive development, Early childhood education, Problem-solving skills, Critical thinking, Curriculum integration, Technology in education, Parental involvement, Lifelong learning.

## Introduction

Logical thinking involves the ability to reason, analyze situations, and draw conclusions based on evidence and patterns. Although preschoolers might not engage in deductive reasoning akin to adults, they possess the foundational elements that pave the way for logical thinking:

Preschoolers begin to grasp the concept of cause and effect through everyday experiences. Whether it's understanding that pushing a toy result in movement or recognizing that the sun sets after a day of play, children naturally start making connections between actions and outcomes.

## **Methodologies:**

Young children exhibit an inherent ability to recognize and create patterns. From arranging toys in a specific order to identifying repeating shapes, this early exposure to patterns lays the groundwork for more advanced logical reasoning skills. Preschoolers engage in activities that involve classifying and sorting objects based on various criteria. This early form of categorization contributes to the development of organizational thinking—a fundamental aspect of logical reasoning.

Logical thinking is a fundamental cognitive skill that extends beyond the realms of mathematics and science. Its significance in early childhood education is manifold:

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- 1. Cognitive Development: Teaching preschool children to think logically supports overall cognitive development. Logical reasoning involves problem-solving, critical thinking, and decision-making—all essential components for a child's intellectual growth.
- 2. Preparation for Academic Success: Logical thinking is a precursor to success in various academic disciplines. Whether it's understanding mathematical concepts, grasping scientific principles, or even excelling in language arts, a foundation in logical reasoning sets the stage for future academic achievements.
- 3. Enhanced Problem-Solving Skills: Logical thinking equips children with effective problem-solving skills. By encouraging them to analyze situations, consider alternatives, and make informed decisions, educators and parents empower preschoolers to approach challenges with confidence.
- 4. Life Skills Development: Beyond academics, logical thinking contributes to the development of life skills. From making sound decisions in daily activities to navigating social interactions, the ability to think logically fosters independence and resilience in young learners.

## **Results:**

Now that we understand the importance of logical thinking in preschool education, let's explore practical strategies for educators and parents to cultivate this skill in young children: Encourage preschoolers to engage in everyday problem-solving activities. This could involve figuring out how to stack blocks to build a tower or determining the best way to arrange toys in a limited space. By presenting challenges, educators and parents provide opportunities for children to think critically and find solutions.

Incorporate interactive games that promote logical thinking. Board games, puzzles, and memory games not only capture the attention of preschoolers but also require them to strategize, plan, and make decisions. These games serve as enjoyable platforms for honing logical reasoning skills. Mathematics is inherently tied to logical thinking. Use play-based activities to introduce basic mathematical concepts such as counting, sequencing, and recognizing shapes. Through hands-on experiences, children develop an intuitive understanding of mathematical principles.

Foster predictive thinking by asking open-ended questions. For example, during story time, prompt children to predict what might happen next in the narrative based on the events unfolding. This encourages them to analyze information and make informed predictions—a fundamental aspect of logical reasoning. Engage preschoolers in activities that explore cause and effect relationships. This could involve simple science experiments, where children observe the outcomes of mixing different materials. Understanding causation enhances their ability to make logical connections between actions and consequences.

Use language that promotes logical thinking. Encourage preschoolers to use words like "because," "if," and "then" when expressing their thoughts. This helps them articulate logical connections and build a foundation for expressing reasoned conclusions.

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Create activities that involve classifying and sorting objects based on specific criteria. Whether it's sorting toys by color, size, or shape, these activities help children develop organizational thinking—a crucial component of logical reasoning.

Model logical thinking through your own actions and decisions. Explain the rationale behind your choices, and involve children in decision-making processes when appropriate. This not only demonstrates logical thinking in practice but also provides a valuable learning experience for preschoolers. Teaching logical thinking to preschoolers may present some challenges, but these challenges can be addressed with thoughtful strategies:

- 1. Logical thinking is a skill that develops over time. Be patient and provide repeated opportunities for children to engage in logical reasoning activities. Repetition helps solidify concepts and allows children to gradually internalize logical thinking skills.
- 2. Recognize that each child develops at their own pace. Tailor activities to suit the individual development of each preschooler, ensuring that challenges are appropriately challenging without causing frustration.
- 3. Cultivate a growth mindset by praising effort and persistence rather than focusing solely on outcomes. Encourage children to embrace challenges as opportunities for learning, fostering a positive attitude towards logical thinking activities.

#### **Discussion:**

Logical thinking is not confined to a specific subject but permeates various aspects of a preschool curriculum. Educators can seamlessly integrate logical thinking into subjects like literacy, science, and even arts and crafts. For instance, encouraging children to predict story endings or analyze characters' motivations in literature develops their analytical skills. Similarly, exploring cause-and-effect relationships in science experiments or identifying patterns in artistic creations nurtures logical thinking in diverse contexts. By embedding logical reasoning throughout the curriculum, educators create a comprehensive learning environment that reinforces these skills across multiple domains.

In today's digital age, technology can be harnessed as a valuable tool for fostering logical thinking in preschoolers. Educational apps and interactive learning games designed for young children often incorporate logical challenges, promoting problem-solving and critical thinking. When used in moderation and under guidance, technology can complement traditional methods, providing an engaging and interactive platform for logical learning. This approach not only aligns with the technological landscape of the 21st century but also caters to the tech-savvy nature of contemporary preschoolers.

The role of parents in nurturing logical thinking cannot be overstated. Collaborative efforts between educators and parents significantly enhance a child's learning experience. Parents can extend logical thinking activities beyond the classroom by engaging in games, discussions, and real-life problem-solving scenarios at home. Creating a seamless connection between school and home environments reinforces the importance of logical thinking and allows for consistent reinforcement of these skills.

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As educators incorporate logical thinking activities into the preschool curriculum, it becomes essential to assess individual progress and provide targeted support where needed. Formative assessments can be employed to gauge each child's understanding and application of logical concepts. Recognizing diverse learning styles and tailoring support ensures that children receive the assistance they require without stifling their natural curiosity and exploration. By fostering a supportive learning environment, educators can address individual needs and promote a positive attitude towards logical thinking. Logical thinking is not just a skill to be acquired for the moment; it forms the cornerstone of lifelong learning. The abilities to analyze information critically, solve problems systematically, and make informed decisions are qualities that extend well beyond the preschool years. By instilling a love for logical thinking in the early stages of education, we equip children with a mindset that embraces challenges and values continuous learning. This foundational approach sets the stage for academic success, professional achievement, and personal growth throughout their lives.

Logical thinking flourishes in an environment that fosters curiosity and a sense of wonder. Preschoolers are naturally curious, and educators can capitalize on this innate trait by introducing activities that prompt questioning and exploration. Encouraging children to ask "why" and "how" stimulates their curiosity, prompting them to seek answers and make logical connections. By cultivating a sense of wonder, educators lay the groundwork for a lifelong love of learning and inquiry—a mindset that aligns seamlessly with the principles of logical thinking.

## **Conclusion:**

Teaching preschool children to think logically is a transformative endeavor that lays the groundwork for their intellectual and academic journey. The early years are a critical period for cognitive development, and by nurturing logical thinking skills, educators and parents empower young learners with the tools necessary for success in various aspects of life. As we recognize the innate potential of preschoolers to engage in logical reasoning, it becomes our collective responsibility to provide them with an environment rich in opportunities to explore, question, and think critically—a foundation upon which they can build a lifetime of learning and achievement.

## **REFERENCES**

- 1. N.J. Alsaleh. Teaching critical thinking skills: Literature review. Turkish Online Journal of Educational Technology-TOJET, 19 (1) (2020), pp. 21-39
- 2. M. Baker, R. Rudd, C. Pomeroy. Relationships between critical and creative thinking. Journal of Southern Agricultural Education Research, 51 (1) (2001), pp. 173-188
- 3. L. Elder. Critical thinking and emotional intelligence. Inquiry: Critical Thinking Across the Disciplines, 16 (2) (1996), pp. 35-49

ISSN Online: 2771-8948

Website: www.ajird.journalspark.org

Volume 23, December, 2023

- 4. P.A. Facione, N.C. Facione. Critical thinking for life: Valuing, measuring, and training critical thinking in all its forms. Inquiry: Critical Thinking Across the Disciplines, 28 (1) (2013), pp. 5-25
- 5. D. Kuhn. A developmental model of critical thinking. Educational Researcher, 28 (2) (1999), pp. 16-46
- 6. Sh O., Oteniyazova P. ADAPTATION OF YOUNG CHILDREN TO THE CONDITIONS PRESCHOOL EDUCATIONAL ORGANIZATION //Norwegian Journal of Development of the International Science. -2021.  $-N_{\odot}$ . 74-2. -C. 32-34.
- 7. Наимова З. К. Развивающие игры для детей с помощью сказок //Карельский научный журнал. 2019. Т. 8. N<sup> $\circ$ </sup>. 2 (27). С. 46-48.
- 8. Babayeva D. R., Jumasheva G. K. CHILDREN OF PRESCHOOL AGE AWAKENING INTEREST IN THE BOOK //CURRENT RESEARCH JOURNAL OF PEDAGOGICS. 2022. T. 3.  $\mathbb{N}^{0}$ . 02. C. 42-46.
- 9. Ибрагимова Л. А., Садуллаева Р. Модели непрерывного образования воспитателей ДОУ //Молодой ученый. 2019. №. 4. С. 392-394.
- 10. Otajonovna E. G. et al. EDUCATION, TRAINING AND DEVELOPMENT OF PRESCHOOL CHILDREN ACCORDING TO THE STATE CURRICULUM "ILK KADAM" //Journal of Pharmaceutical Negative Results. 2022. C. 6467-6472.
- 11. Shimbergenovna S. V. Development of inclusive education in preschool education //ACADEMICIA: An International Multidisciplinary Research Journal. -2022. -T. 12.  $-N^{\circ}$ . 11. -C. 160-163.
- 12. Babayeva D. R. et al. Formation Of Patriotic Concepts In School-Aged Children //Journal of Pharmaceutical Negative Results. 2022. C. 1537-1541.
- 13. Baxtiyarovna N. A. Methodology for teaching a foreign language in preschool education //ACADEMICIA: An International Multidisciplinary Research Journal. 2022. T. 12.  $N^{\circ}$ . 11. C. 176-179.
- 14. Жумашева, Г. Х. and Айгуль Сапарниязова. "Пути и средства формирования экологического сознания у дошкольников." ББК 40.0 П78 (2021): 762
- 15. Babayeva D. R., Jumasheva G. K. CHILDREN OF PRESCHOOL AGE AWAKENING INTEREST IN THE BOOK //CURRENT RESEARCH JOURNAL OF PEDAGOGICS. 2022. T. 3.  $\mathbb{N}^{\circ}$ . 02. C. 42-46.
- 16. Алеуова Р. Ш., Айтмуратова К. Формирование духовнонравственных основ личности ребенка // Молодой ученый. 2019.  $N^04$
- 17. Turebekova Guljakhan Adilbekovna. TOOLS FOR DEVELOPING RESPONSIVENESS SKILLS IN PRIMARY SCHOOL STUDENTS. JCR. 2020; 7(12): 3127-3132. doi:10.31838/jcr.07.12.473
- 18. Dlimbetovna T. K. Psychological conditions for the formation of moral qualities in preschool children //ACADEMICIA: An International Multidisciplinary Research Journal. –2022. –T. 12. –No. 11. –C. 180-183
- 19. Allambergenovna E. D., Avezovna L. I. EDUCATIONAL VIEWS OF THE HERO OF UZEKSTAN ALLANIYAZ UTENIYAZOV, ACTIVITIES OF THE HERO OF UZBEKSTAN ALLANIYAS UTENIYAZOV IN THE PATH OF WELL-BEING OF THE PEOPLE //Galaxy International Interdisciplinary Research Journal. 2022. T. 10. Nº. 1. C. 409-414.
- 20. Ибрагимова, Л. А., & Садуллаева, Р. (2019). Модели непрерывного образования воспитателей ДОУ. *Молодой ученый*, (4), 392-394.