



## THE FORMATION OF INNOVATIVE THINKING IN PRESCHOOL CHILDREN

*Khamidova Gulbahor*

*XXX Senior teacher of the Department of Preschool Education Methodology of JDPU*

**Annatation:**The article formation of innovative thinking in preschool children through the development of creative and intellectual abilities is a critical area of early childhood education.

The formation of innovative thinking in preschool children through the development of creative and intellectual abilities is a critical area of early childhood education. During the preschool years, children are at a prime stage of cognitive and emotional development, and fostering their creative and intellectual abilities can lay the foundation for innovative thinking. Innovative thinking involves not only the ability to generate new ideas but also to approach problems from novel perspectives, which is an essential skill in the 21st century.

Here's a breakdown of how to promote innovative thinking in preschool children through the development of their creative and intellectual abilities:

### 1. Encouraging Curiosity and Exploration

- **Fostering a Growth Mindset:** Children need to believe that their abilities can develop through effort and learning. Encouraging a mindset that mistakes are part of learning helps children approach challenges with resilience and curiosity.
- **Hands-on Experiences:** Activities such as experiments, nature walks, and sensory play allow children to explore the world around them, stimulating their intellectual curiosity and problem-solving skills.
- **Open-Ended Questions:** Asking questions like "What do you think would happen if...?" or "How can we make this work?" prompts children to think critically and explore different possibilities.

### 2. Promoting Creative Play

- **Imaginative Play:** Pretend play (e.g., playing "house," pretending to be doctors or chefs) nurtures creativity. It allows children to use their imagination to create stories, solve problems, and navigate social interactions.
- **Arts and Crafts:** Activities such as drawing, painting, building with blocks, or molding with clay foster creative expression and fine motor skills. These activities provide opportunities for open-ended thinking, where there are no right or wrong answers.
- **Music and Movement:** Engaging with music and rhythm, whether through singing, dancing, or playing instruments, encourages creative thinking and emotional expression. These activities also support cognitive skills like memory, sequencing, and pattern recognition.

### 3. Encouraging Problem-Solving

- **Puzzle Games:** Puzzles and problem-solving activities, such as matching, sorting, or building, develop cognitive flexibility. These tasks encourage children to think through solutions and test out different approaches.
- **Building and Construction Play:** Using materials like blocks, Legos, or other construction sets helps children understand spatial relationships, improve coordination, and develop the ability to plan and execute complex ideas.
- **Collaborative Problem-Solving:** Group activities where children are encouraged to work together to solve a problem (e.g., building a structure or organizing an event) teach them how to collaborate, communicate, and integrate various perspectives.

#### 4. Developing Language and Communication Skills

- **Storytelling and Narrative Play:** Encouraging children to tell stories, either orally or through pictures, enhances their ability to think critically, organize ideas, and communicate effectively. Storytelling fosters creativity and helps children connect abstract concepts with real-life experiences.
- **Discussion and Reflection:** After engaging in a creative or intellectual activity, guiding children to reflect on their process (e.g., "How did you solve that problem?" or "What made your picture special?") supports metacognition and the ability to think about their thinking.
- **Expanding Vocabulary:** A rich vocabulary allows children to express their ideas more clearly and accurately. Reading aloud, introducing new words, and encouraging children to use descriptive language expands their intellectual capacity.

#### 5. Integrating STEAM (Science, Technology, Engineering, Art, Math) Activities

- **Simple Science Experiments:** Hands-on science activities such as growing plants, mixing colors, or exploring water and air can stimulate inquiry-based learning. These activities encourage observation, experimentation, and reflection—key components of innovative thinking.
- **Technology Integration:** Age-appropriate digital tools (e.g., educational apps, simple coding games, or interactive storybooks) can enhance learning and creative expression. Technology provides children with new ways to explore and manipulate their ideas.
- **Math and Logic Games:** Introducing simple math concepts through games, puzzles, and activities involving shapes, patterns, and numbers helps develop critical thinking skills. For example, sorting objects by size or color encourages logical reasoning and pattern recognition.

#### 6. Providing a Stimulating Environment

- **Rich Learning Environment:** The classroom or home environment should be filled with diverse materials, books, art supplies, and resources that invite exploration and creativity. An environment that supports discovery and invites children to experiment with ideas can stimulate innovative thinking.
- **Choice and Autonomy:** Allowing children to make choices about what to play with, how to approach a task, or when to take breaks fosters independence and self-directed learning, which is crucial for innovative thinking.
- **Time for Free Play:** While structured activities are important, unstructured playtime gives children the freedom to explore ideas, try out new roles, and test their creativity in an open, supportive space.

#### 7. Supporting Emotional and Social Development

- **Building Emotional Intelligence:** Encouraging children to identify and express their emotions, understand others' feelings, and manage conflict helps them develop empathy and social skills—important for innovative teamwork and collaboration.
- **Risk-Taking and Confidence:** Supporting children in taking risks—whether in creative expression, trying new things, or solving problems—helps build confidence. This is key for fostering an innovative

mindset where children feel empowered to take on challenges and explore new ideas.

## 8. Scaffolding and Encouragement

- **Adult Guidance:** While promoting independent thinking, adults (parents, teachers, caregivers) should offer appropriate support. This could involve guiding children's thinking with open-ended questions or providing just the right amount of assistance to help them reach a solution on their own.
- **Praise Effort, Not Just Outcome:** Emphasizing effort and process over the final product encourages children to keep experimenting and thinking creatively without fear of failure.

## Conclusion

The formation of innovative thinking in preschool children requires a holistic approach that nurtures both their creative and intellectual abilities. By providing opportunities for curiosity-driven exploration, creative expression, problem-solving, and emotional development, educators and parents can foster a mindset that embraces innovation and prepares children for the challenges of the future. Early childhood is a critical period for shaping the cognitive and emotional tools children will use to think creatively and approach problems with flexibility, resilience, and confidence.

Forming innovative thinking in preschool children by developing their creative and intellectual abilities involves using specific methods and strategies that stimulate their cognitive growth, encourage creativity, and foster a problem-solving mindset. The following methods are effective for promoting innovative thinking in young children:

### 1. Project-Based Learning (PBL)

- **Description:** Project-based learning involves engaging children in longer-term, hands-on projects that require critical thinking, problem-solving, and creativity. This method encourages children to explore a topic or solve a problem, often culminating in a product, presentation, or action.
- **Application:** For example, a preschool project could focus on "building a playground" where children are asked to brainstorm ideas, design the playground, and determine how to use materials. Throughout the process, they engage in planning, collaboration, and experimentation, fostering innovative thinking.
- **Benefits:** PBL develops skills like inquiry, collaboration, and critical thinking, and it helps children see the connections between creative expression and intellectual problem-solving.

### 2. Inquiry-Based Learning

- **Description:** Inquiry-based learning encourages children to ask questions, investigate, and find answers through exploration. Instead of being given answers directly, children are encouraged to seek solutions on their own.
- **Application:** A teacher could present a simple scientific question like, "What happens when we mix colors?" and allow children to experiment with paint or colored water. Children explore their own hypotheses, test their ideas, and discover outcomes.
- **Benefits:** This method nurtures curiosity and the ability to think critically about problems, allowing children to see themselves as active learners and innovators.

### 3. Creative Play

- **Description:** Creative or imaginative play is a natural way for young children to explore the world and develop both intellectual and creative abilities. This type of play allows children to engage in scenarios where they can invent new ideas, roles, and solutions.

- **Application:** Pretend play (such as playing "house," "store," or "doctor") allows children to invent and solve problems within their imaginary worlds. Similarly, using open-ended toys like blocks, clay, or art materials lets children express ideas in a non-prescriptive way.
- **Benefits:** Creative play encourages problem-solving, role-taking, and social interaction, which are crucial for innovative thinking. It also stimulates the development of cognitive flexibility and adaptability.

#### 4. Brainstorming and Idea Generation

- **Description:** Brainstorming sessions allow children to generate a wide range of ideas in response to a problem or question. This method fosters divergent thinking, where multiple solutions and possibilities are explored.
- **Application:** For example, if a class is designing a toy, children can participate in brainstorming sessions where they freely suggest different materials, shapes, and uses. The key is to encourage all ideas without judgment.
- **Benefits:** Brainstorming enhances creativity and the ability to think outside the box. It also teaches children that there are multiple ways to solve a problem and that failure or imperfection is part of the creative process.

#### 5. Scaffolding

- **Description:** Scaffolding involves providing children with temporary support as they work on tasks that are just beyond their current ability. Over time, this support is gradually removed as the child gains confidence and skills.
- **Application:** A teacher may initially demonstrate how to build a structure with blocks, offering guidance on how to balance pieces. As the child becomes more skilled, the teacher reduces their input, allowing the child to experiment and develop solutions independently.
- **Benefits:** Scaffolding helps children develop problem-solving skills and builds their confidence to think creatively. By providing support tailored to the child's current level, this method fosters intellectual growth while also encouraging innovative thinking.

#### 6. Role-Playing and Simulation

- **Description:** Role-playing and simulation games allow children to step into different roles, think from other perspectives, and solve problems creatively within those contexts.
- **Application:** For instance, in a "market" role-play, children can act as buyers, sellers, or shopkeepers, solving problems like making change or negotiating. This type of play encourages children to think innovatively about everyday situations and develop both cognitive and social skills.
- **Benefits:** Role-playing stimulates creative thinking by requiring children to invent solutions and adjust their strategies based on evolving scenarios. It also promotes social interaction and communication, which are key to innovative thinking.

#### 7. Mind Mapping and Conceptual Mapping

- **Description:** Mind mapping is a visual method of organizing and linking ideas, which helps children see the connections between concepts and think in a more structured, yet creative way.
- **Application:** In a mind mapping exercise, children can draw or use pictures to connect ideas around a central theme (e.g., "What are different types of animals?" or "How does a plant grow?"). This technique helps children organize their thoughts and approach problems systematically.
- **Benefits:** Mind mapping aids in developing both creative and analytical thinking by helping children organize complex ideas, understand relationships between concepts, and think divergently.

#### 8. Collaborative Learning

- **Description:** Collaborative learning involves children working together to solve a problem, share ideas, or create something new. Group activities foster communication, idea exchange, and teamwork, which are essential for innovative thinking.
- **Application:** Teachers can set up group activities like building a large structure with blocks or creating a story together. Each child brings their own ideas and perspective, encouraging creative solutions and collaboration.
- **Benefits:** Collaborative learning promotes social interaction, teamwork, and communication, all of which enhance problem-solving skills and creative thinking. It also helps children learn from one another, broadening their perspectives and innovative approaches.

## 9. Exploration of New Materials and Technologies

- **Description:** Introducing new materials and technologies encourages children to experiment and think creatively. New tools, whether physical (like LEGO sets, clay, or paint) or digital (like interactive apps or simple coding programs), can spark novel ideas and solutions.
- **Application:** Providing children with access to a variety of materials like recycled objects, natural items, or new art supplies can inspire creative construction and experimentation. Digital tools such as tablets or interactive boards can also offer new ways for children to engage with ideas.
- **Benefits:** The use of diverse materials and technologies broadens the range of possibilities for creative expression and problem-solving. Children learn to explore, manipulate, and combine elements in new ways, developing their innovative thinking.

## 10. Storytelling and Story Creation

- **Description:** Storytelling allows children to use their imagination to create new worlds, characters, and scenarios. It promotes both creative expression and intellectual development, as children must think critically to structure narratives.
- **Application:** Children can create their own stories using pictures, drawings, or oral narration. Teachers can guide them to incorporate elements of problem-solving (e.g., how a character solves a dilemma) into their stories.
- **Benefits:** Story creation fosters imagination, narrative skills, and the ability to think logically and creatively. It also teaches children how to structure ideas and communicate them effectively.

## 11. Games and Challenges

- **Description:** Games that require strategy, planning, and creative thinking can foster innovation. Activities that involve puzzles, riddles, and logic games help children practice solving problems in new and inventive ways.
- **Application:** Simple board games, building challenges, or logic puzzles like pattern recognition or sorting games can encourage children to think critically and creatively.
- **Benefits:** Games provide a fun, engaging environment for children to experiment with different strategies, develop resilience in the face of challenges, and improve their problem-solving abilities.

---

## Conclusion

The methods outlined above promote innovative thinking in preschool children by encouraging creativity, intellectual curiosity, problem-solving, and collaboration. By creating a rich, supportive learning environment that fosters exploration, experimentation, and reflection, educators can help young children develop the foundational skills for innovative thinking that will benefit them throughout their lives. The key is to integrate these methods into everyday experiences, making learning both fun and purposeful, and

allowing children to explore their potential to create, imagine, and think critically.

**List of used literature:**

1. O. U. Khasanboeva -Education of a well-rounded generation in the family|. T., "Science and technologies" 2010.
2. Sh.K.Tashpulatova -Organization and management methods of preschool educational institutions| TDPU.T.: 2001.
3. B.Ziyomuhamedov, Sh.Abdullaeva -Pedagogy -Uzbekistan National Encyclopedia State Scientific Publishing House. Year: 2000
4. R. Mavlonova -Pedagogical technology Tashkent -Science| 2009. 241
5. R. Ishmukhamedov -Innovative technologies in education. Tashkent -Talent. 2008