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COGNITIVE DEVELOPMENT STAGES IN CHILDREN AGED 6–7

Davronova Sevinch Alisherovna

Student of the Faculty of Preschool and Primary Education,

Termiz State Pedagogical Institute

Abstract: This article examines the stages of cognitive development in children aged 6 to 7, a transitional period between early childhood and the beginning of formal schooling. At this age, children undergo significant changes in memory, attention, logical thinking, and problem-solving abilities. The paper explores the psychological and pedagogical characteristics of mental development during this stage, drawing on theories from Piaget, Vygotsky, and contemporary research in developmental psychology. It also highlights the role of social interaction, learning environments, and educational activities in shaping cognitive abilities at this age.

Keywords: cognitive development, children aged 6–7, mental stages, preschool education, logical thinking, memory, attention, developmental psychology.

The ages of 6 and 7 mark a critical stage in a child's cognitive development. It is during this time that children transition from preschool to the early years of formal education, entering a new phase that requires greater mental effort, focus, and intellectual engagement. Psychologists describe this age as a bridge between intuitive, image-based thinking and the development of logical and structured thought processes.

At this stage, children begin to demonstrate improved memory retention, longer attention spans, and an increased ability to classify, compare, and analyze objects or ideas. According to Jean Piaget, children between 6 and 7 enter the *concrete operational stage*, where they start understanding concepts such as conservation, reversibility, and cause-and-effect relationships. Lev Vygotsky, on the other hand, emphasized the role of social interaction and language in driving cognitive progress during this age.

The development of mental functions at this age is closely linked to educational and environmental influences. Structured learning activities, guided play, peer collaboration, and adult scaffolding all contribute to the advancement of higher-order thinking skills. Understanding these developmental stages is crucial for educators and parents in designing age-appropriate instructional strategies that support intellectual growth and prepare children for academic success.

This article aims to provide an overview of the cognitive development stages of 6–7-year-old children, supported by theoretical frameworks and current pedagogical insights.

This research employed a qualitative approach to investigate the stages of cognitive development in children aged 6 to 7. The primary data collection methods included structured classroom observations, teacher interviews, and developmental assessments based on age-appropriate cognitive tasks.

Observations were conducted in three primary school preparatory classes over a period of eight weeks. Researchers focused on how children approached tasks involving memory, attention, classification, sequencing, and simple logical reasoning. During structured activities such as puzzles, sorting tasks, and math games, children's behaviors were recorded and analyzed.

In-depth interviews were conducted with 10 primary school teachers and early childhood educators to gather insights into common patterns of cognitive development observed in 6–7-year-old children. Educators shared real-life examples of how children at this age solve problems, ask questions, and interact with peers during learning activities.

Additionally, selected standardized developmental tasks (adapted from Piagetian and Vygotskian frameworks) were administered to assess specific cognitive functions such as conservation of quantity, seriation, and classification abilities.

The findings revealed that children aged 6–7 exhibit clear signs of transitioning from intuitive, pre-logical thinking to more structured and logical thought processes. Most children demonstrated a basic understanding of cause-and-effect relationships and could perform simple mental operations when concrete objects were involved.

Key observations included:

- **Improved memory retention:** Children could recall and apply rules, instructions, and previously learned concepts during activities.
- **Focused attention:** Many children were able to maintain concentration on a single task for up to 15–20 minutes without significant distraction.
- **Classification and grouping:** The majority of participants successfully grouped objects based on size, color, or shape, and some could explain their reasoning.
- **Emerging logical reasoning:** When solving problems or explaining their thought process, children began to use more structured language and showed early signs of abstract thinking.

Teachers reported that while individual development varied, most children at this stage benefited greatly from guided instruction and peer collaboration. Social learning environments helped reinforce cognitive tasks, particularly those that involved discussion and cooperative problem-solving.

These results support the theoretical claim that ages 6–7 represent a foundational period for the development of key intellectual abilities, which serve as a base for future academic achievement.

The findings of this study align with established developmental theories, particularly those of Jean Piaget and Lev Vygotsky, who emphasized that cognitive growth during early school age is both biologically driven and socially influenced. At ages 6 to 7, children begin transitioning into what Piaget termed the *concrete operational stage*, in which they develop logical reasoning skills, but still rely heavily on tangible and visible objects to process information.

Observation data showed that children at this stage demonstrate considerable growth in their capacity for mental categorization, short-term memory, and goal-directed behavior. However,

abstract reasoning remains limited. They often require visual aids, hands-on activities, and adult guidance to solve more complex tasks.

Vygotsky's theory of the *Zone of Proximal Development* is also supported by the results. Children were able to perform significantly better on cognitive tasks when supported by a teacher or when working in pairs. This suggests that social interaction and adult scaffolding are essential for unlocking children's full developmental potential at this age.

Moreover, children's emotional and social environments were found to influence their cognitive performance. Those who were engaged, emotionally supported, and confident in the classroom demonstrated greater willingness to explore new ideas and take on challenges. The results indicate that positive reinforcement and interactive teaching strategies—such as questioning, discussion, and cooperative learning—foster the development of higher-order thinking.

Thus, cognitive development in 6–7-year-olds should not be viewed as a solitary process but as one deeply rooted in context: shaped by the learning environment, teaching style, social interaction, and individual experience.

Children aged 6 to 7 undergo a crucial phase of cognitive development characterized by a shift from intuitive thinking to more logical and organized mental operations. This transition enables them to engage with more structured learning tasks and to form the foundation for academic success.

The study confirms that at this age, children benefit from developmentally appropriate educational practices that include hands-on activities, visual support, peer collaboration, and adult scaffolding. The combination of a supportive learning environment and well-designed cognitive tasks significantly enhances attention, memory, and reasoning skills.

To support children's mental growth during this period, educators must understand the stages of cognitive development and apply flexible, interactive teaching methods. Furthermore, parents and caregivers play a critical role in reinforcing learning outside the classroom by encouraging inquiry, language use, and critical thinking through daily interactions.

Ultimately, recognizing and nurturing the intellectual capabilities of 6–7-year-olds is key to ensuring their long-term educational and personal success.

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