

Strengthening Logical Mathematical Thinking Through Recreational Strategies Targeted at Children In Initial Education

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ABSTRACT

This proposal was driven by a scientific concern to assess logical-mathematical thinking. The educational experiences developed in the classroom environment revealed a noticeable weakness in the consolidation process of logical-mathematical thinking in children. This situation prompted the need to design contextualized pedagogical strategies that effectively respond to the characteristics and needs of the school group. Cognitive development is closely linked to play, exploration, and interaction with the environment. Therefore, it is proposed to integrate activities such as classification games, seriation, problem-solving, block construction, group dynamics, and age-appropriate mathematical challenges for the children of the Bolivarian Rural Educational Unit 'Simón Bolívar.' The methodology employed was framed within the qualitative paradigm, as the research was based on the collection of information through interviews and fiction of observation. The study was developed under the approach of Transformative Participatory Action Research, allowing for the analysis of the issues related to logical-mathematical thinking in children. Through playful activities with sports elements, a significant transformation was achieved in the development of cognitive skills. The results evidenced advances in the development of logical-mathematical thinking, reflected in the strengthening of reasoning, understanding of sequences, organization of patterns, and the ability to establish relationships between concepts during the proposed activities. Each presentation of the activities prompted notable improvements in performance, autonomy, logical thinking, and the capacity to solve situations in a structured manner, thus strengthening the holistic development of children.

Descriptors: Strengthening, Recreational strategies, Logical-mathematical thinking, **Biographical Review:** Hilma Sobeida Vera Sevilla. Specialist in Early Childhood Education at the National Experimental University of Teaching 'Samuel Robinson', Coordinator of learning resources at the Rural Bolivarian Educational Unit 'Simón Bolívar'.