Annotation

**Theme of graduate qualification work:** The development of intellectual faculties of senior preschool children in the processes of organizing developing games in basic mathematical representations.

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The relevance of the research topic has determined by the need to improve the quality of preschool education in the modern era. The state is interested in the full development and upbringing of a child of preschool age in educational institutions and the family.

In connection with the modernization of preschool education and the introduction of the Federal State Standard of Preschool Education, mental development centered on the development of the ways of thinking acquires special significance. It is very important to realize the effective development of the intellectual sphere in the preschool period, since this sphere predetermines the success of further schooling. At present, the problem of searching for new methods, technologies and tools ensuring the comprehensive and full-fledged mental development of preschool children, taking into account their age and individual characteristics, is urgent.

**The objective of research:** the optimization the process of development of the intellectual sphere of the senior preschool children.

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**The subject of research:** the psychological and pedagogical conditions of the
The development of mental faculties of the senior preschool children in the course of the organization of the developing games in the course of formation of elementary mathematical concepts in class.

**The tasks of research:**

1. to carry out the analysis of modern theoretical approaches to a problem of the development of the intellectual sphere of the senior preschool children;

2. to determine the features of the intellectual faculties of the senior preschool children and identify psychological and pedagogical conditions of development of the senior preschool children;

3. to develop a program for the development of intellectual faculties of the senior preschool children in the process of organizing educational games in course of the formation of elementary mathematical concepts in class;

4. to develop psychological and pedagogical recommendations on the formation of elementary mathematical concepts with the inclusion of modern developing games and technology.

**Theoretical and methodological bases of research:** the concept of mental development (L.S. Vygotsky, V.P. Zinchenko, A.N Leontev.); theoretical positions of specifics of mental development preschool children (L.A Venger, O.M. Diachenko, A.V Zaporozhets, L.F. Obukhova); pedagogical concept of complete development and education of the preschool child as a subject of children's activity (V.V Krukhlet).

**The results of the research** have shown the high level of development on the following indicators: the faculty of correlation of objects to the set standards (63 %), the faculty to work on a sample (57%), the faculty to model an object (43%), the faculty to carry out classification (50%), the level of mastering logical operations (57%) and the level of development of quantitative representations (70%). But at the same time, some of the children revealed a low level of development of the faculty to understand the pattern (20%), actions by instruction (17%), and the faculty to establish cause-effect relationships (20%).
**Recommendations.** The program for formation of elementary mathematical representations of the senior preschool children" is developed with the use of the modern developing games and technologies in the course of formation of elementary mathematical concepts in class. The psychological and pedagogical conditions promoting the development of mental faculties of the senior preschool children include:

1. The creation of a learner-centered teacher-preschooler relationship;
2. Creation of a developing subject-spatial environment with the use of developing games of mathematical content;
3. The organization of classes in the formation of elementary mathematical concepts on the basis of the implementation of the principles of system and sequence, the complication of gaming tasks taking into account the zone of actual and near development of senior preschool children;
4. Determination of dynamics of development of intellectual faculties of each child in designing the content of the organized activities;
5. Continuous increase of the professional level of teachers in solving problems of the formation of elementary mathematical concepts in late preschoolers;
6. Creation of the positive environment for independent activities of the child;
7. Active inclusion of parents in the development of intellectual faculties of children.

**Pedagogical recommendations**

In order to develop the intellectual faculties of the senior preschool children it is necessary to provide:

- inclusion of modern developing games, various graphic tools (schemes, models, graphs, symbols) in the structure of classes in the formation of elementary mathematical representations that ensure the integration of problems of mathematical and speech development;
- development of intellectual faculties of the senior preschool children in the course of various types of children's activities (game, cognitive - research, productive);
- combination of various forms and methods of organization of training (classes,
individual and group work, developing games, experimentation by teachers;
- use of various forms of cooperation of preschool educational institutions with parents, namely cognitive, leisure, visual - information and information - analytical for informing parents about the intellectual development of senior preschool children.