

## ANNOTATION

**dissertations on the topic "Development of the intellectuality of future primary school teachers based on critical thinking" for the degree of Doctor of Philosophy (PhD) in the specialty "6D010200 - Pedagogy and methods of primary education" Iskakova Lyaila Maratovna**

**Research topic:** Development of the intellectuality of future primary school teachers based on critical thinking.

**The purpose of the study:** theoretical substantiation of the development of the intellectuality of future primary school teachers based on critical thinking, development of a methodology and testing of its effectiveness.

**Research objectives:**

- 1) Determination of the psychological and pedagogical foundations of the development of the intellectuality of future primary school teachers on the basis of critical thinking;
- 2) Specification of the structure and content of the concepts of "intellectuality" and "critical thinking";
- 3) Identification of the possibility of developing the intelligence of future primary school teachers on the basis of critical thinking;
- 4) Development of a structural and meaningful model of intellectual development of future primary school teachers based on critical thinking;
- 5) Development of a methods for the effective development of the intellectuality of future primary school teachers based on critical thinking and experimental testing of its effectiveness.

**Research methods:** *theoretical* (analysis, collection, content analysis, structuring, hierarchy, generalization, comparison, clarification, presentation of the results of scientific and theoretical literature); *empirical* (experiment, survey, observation, diagnostics, pedagogical experiment, mathematical and statistical processing of statistical results, analysis).

**Main provisions**

1. Critical thinking of future primary school teachers is characterized by the development of their intelligence, the ability to ask difficult questions in the educational process, the ability to prove their point of view when solving problems based on the context;
2. Critical thinking is the study of the detailed structure and content of the concepts of "intelligence" and "critical thinking", consideration of the possibility of logical analysis of information and finding contradictions in it, making sound judgments, decisions and applying the results to typical and non-standard situations, questions and problems - theoretical basis of our work;
3. Critical thinking is a form of creative activity of the subject of education, stimulated by educational and cognitive motives, allowing not only the ways of its implementation, but also the development of the personality, providing a logical connection of factors affecting their learning outcomes. Features based on theoretical knowledge defined as the quality of professional training of a future specialist;
4. Content analysis of scientific-theoretical and scientific-methodical literature on the development of the intellectuality of future primary school teachers based on critical thinking, which served as the basis for building a structural and content model of a future

specialist, guided by the definition of its principles, methods, components, criteria and indicators of development intelligence. The criteria and components of the development of the intellectuality of future primary school teachers based on critical thinking in close interconnection reflect the basic structure of this training;

5. The development of the intellectuality of future primary school teachers based on critical thinking implemented in the pedagogical process of the university with the introduction of a comprehensive methodological program, consisting of a special course program for future specialists "Development of intellectuality based on critical thinking".

**Description of the main results of the study:**

1. The psychological and pedagogical foundations of the development of the intellectuality of future primary school teachers on the basis of critical thinking are determined;

2. The structure and content of the concepts of "intellectuality" and "critical thinking" have clarified;

3. The features of the development of the intellectuality of future primary school teachers based on critical thinking are determined;

4. On the basis of critical thinking, a structural and meaningful model of the development of the intelligence of future primary school teachers has developed, components, measuring indicators, levels have been determined;

5. A methodology for the effective development of the intellectuality of future primary school teachers based on critical thinking has developed and its effectiveness has tested in practice.

**The degree of novelty of the obtained results and conclusions:**

The degree of novelty of each scientific result and conclusion formulated in the research work is as follows:

The first result is new. The works of scientists from near and far abroad and domestic scientists are analyzed, and based on critical thinking, the psychological and pedagogical foundations for the development of the intellect of future primary school teachers are revealed.

The second result is completely new. In the course of the analysis of psychological-pedagogical and scientific-methodical works, key categorical points analyzed; the structure and content of the concepts of "intellectuality" and "critical thinking" clarified. In addition, the author's definition of the basic concepts of "intellectuality", "critical thinking" is given.

The third result is completely new. In the course of the study, for the first time, the features of the intellectual development of future primary school teachers based on critical thinking revealed.

The fourth result is completely new. In the course of the study, a structural-content model was developed in which the components, criteria and indicators of the development of the intellectuality of future primary school teachers based on critical thinking and the levels of its achievement (high, medium, low) were theoretically determined.

The fifth result is completely new. For the first time, a methodology proposed for the effective development of the intellectuality of future primary school teachers based on critical thinking (the program of the special course "Development of Intellectuality Based on Critical Thinking", the methodological manual "Development of Intellectuality based on Critical Thinking") and implemented in practice.

**Compliance with the directions of development of science or government**

**programs:**

Among the main tasks of the state program for the development of education and science of the Republic of Kazakhstan for 2020-2025, the issues of increasing the global competitiveness of Kazakhstani education and science, educating and educating the individual on the basis of universal values, modernizing teacher education, ensuring the intellectual, spiritual, moral and physical development of the student.

In the state compulsory standard of higher education: competence - the ability to put into practice the knowledge, skills and abilities acquired in the learning process in professional activities. In addition, the requirements for students indicate the need to be able to generalize the results of research that determines intelligence. Therefore, the search for theoretical and practical solutions for the development of the intellectuality of future primary school teachers based on critical thinking demonstrates a close connection with the state programs for the development of education and science in the Republic of Kazakhstan.

**Description of the contribution of the doctoral candidate to the preparation of each publication:**

According to the content of the research work, 17 articles, 1 methodological manual published. Of these, 1 in the publication included in the Scopus database:

Developing the Future Primary School Teachers Intellectual Skills in Kazakhstan. International Journal of Instruction (Switzerland), – 2021.V.14. – №.3 – p. 755 - 770. (Amirova A., Ospanbekova M., Zhumabekova F., Ageyeva L., Zhailauova M.). The article describes the ways of developing the intellectual skills of future primary school teachers and methods of quantitative analysis. The share of a doctoral student in writing an article is 80%.

In the publications recommended by the Committee for Quality Assurance in Education and Science of the Republic of Kazakhstan, 5 articles were published:

The importance of critical thinking in the development of the intellectuality of future primary school teachers. Bulletin of the Abai Kazakh National Pedagogical University. - Series "Pedagogical Sciences" - Almaty: Abai KazNPU, 2018. - №. 1 (57). - p. 40-45. The article reveals the importance of critical thinking. For a doctoral student in writing articles-100%.

The effectiveness of the use of critical thinking technology in the development of the intellectuality of future specialists. Bulletin of West Kazakhstan State University. - Series "Pedagogical Sciences" - Oral: M. Utemisov West Kazakhstan State University, 2018. - №. 2 (70). - p. 3-9. (A. S. Amirova). The scientific article examines the effectiveness of the use of critical thinking technologies. Three characteristic phases of critical thinking technology are described. The share of a doctoral student in writing an article is 70%.

The role of skills in the development of critical thinking in the process of developing the intellectuality of future primary school teachers. Bulletin of the Abai Kazakh National Pedagogical University. - Series "Pedagogical Sciences" - Almaty: Abai KazNPU, 2018. - №. 4 (60). - p. 196-204. The article discusses the cognitive skills of critical thinking 1. interpretation; 2. analysis; 3. evaluation; 4. generalization; 5. interpretation; 6. self-regulation. A special place in the training of an intellectual specialist is given to skills. For a doctoral student in writing articles-100%.

Methodological aspects of the development of the intellectuality of future primary school teachers. Bulletin of the Abai Kazakh National Pedagogical University. - A series of "Pedagogical sciences" - Almaty: Abai KazNPU, 2019. - №. 1 (61). - p. 42-47. This article

discusses methodological approaches (principles, methods, a set of approaches) and methodological recommendations related to the development of the intellectuality of future primary school teachers. For a doctoral student in writing articles-100%.

Development of the intellect of students in the educational process of a pedagogical university. Bulletin of the Abai Kazakh National Pedagogical University. - A series of "Pedagogical sciences" - Almaty: Abai KazNPU, 2019. - №. 4 (64). p. 198-203. (Koshygulova A. S.). The article defines the possible forms and methods of building the educational process. The share of a doctoral student in writing an article is 85%.

11 articles were published in the editions of foreign and domestic international conferences:

Theoretical aspects of future teachers intellectuality development. AD ALTA: journal of interdisciplinary research, 2019; 09 (01): pp. 46-51. ((Zh.Madaliyeva, Sh.Shekerbekova, A.Baiganova, A.Mankesh, Sh.Akimbekova, M.Abdiyeva) The article analyzes in detail the theoretical aspects of the development of the intellect of future teachers. The contribution of a doctoral student to writing an article is 85%.

The role of the basic principles and methods of critical thinking in the development of intellectuality. II. Uluslararası. Abay Kunanbayoğlu Kazak Kültürü, tarihi ve edebiyati Sempozyumu. Ankara. 11-14 Kasım 2018. – p. 19-25. (G. Zh. Sabyr, A. B. Aldabergenova, G. M. Iskakova, G. S. Seitbayeva) the article discusses the basic principles of the method of critical thinking "The Question Behind the Question". The contribution of a doctoral student to writing an article is 85%.

Development of critical thinking of the future teacher in the process of professional training at the university. UMTEB IV. Uluslararası. Mesleki ve Teknik Bilimler Kongresi. Erzurum. 7-9 Aralık 2018 – p.783-791. (G. M. Iskakova G. S. Seitbayeva). The article defines the ways of developing the critical thinking of a future teacher in the process of professional training at a university. The contribution of a doctoral student to writing an article is 85%.

Development of the intellectuality of future primary school teachers based on critical thinking. Science and Life of Kazakhstan, №. 1 (156) 2021. p. 143-151((Bikbaeva M. T.). The article defines the influence of special education on the intellectual level of students, including critical thinking skills, by statistical analysis. The contribution of a doctoral student to writing an article is 85%.

Pedagogical aspect of critical thinking technology. Materials of the XIII international scientific and practical conference. «Cutting – edge science - 2017» (30 April – 07 May, 2017). England. 2017. – p.69-74. the article describes how the effective, systematic use of technology contributes to the rational use of class time. The contribution of the doctoral student to the writing of the article is 100%.

The study of the concept of intellectuality in the domestic and foreign fields of science. Materials for the XIII international scientific and practical conference. Please ask from the light on Naukat (December 15-22, 2017) Sofia. "Byal GRAD-BG". 2017. - p. 49-52. the article comprehensively examines the analysis of definitions given by scientists under the concept of intelligence. The contribution of the doctoral student to the writing of the article is 100%.

Development of the intellect as the basis for personal and professional development. XIII International Scientific and Practical Conference "Shamov Pedagogical Readings of the Scientific School of Management of Educational Systems". Moscow 2021. - pp. 49-54. (Esmuratova G. Zh.) The article considers the individual components of the development of

intelligence and the general level of intelligence. The contribution of a doctoral student to writing an article is 85%.

Reflection of the problem of critical thinking in the updated content of education. Materials of the international scientific-practical conference "Modern preschool and primary education: theory, methodology and practice." Kazakh State Women's Teacher Training University. Almaty, - 2017. - p. 353 - 356. The article deals with the issue of transition to the updated content of education and focusing the attention of students on critical thinking. The contribution of the doctoral student to the writing of the article is 100%.

The effectiveness of the critical thinking technique. Materials of the international scientific-practical conference "Leadership and management: modern trends in the development of theory and practice." - Almaty: Abai Kazakh National Pedagogical University, "Ulagat" publishing house, 2019. - p. 316-320. (Abilbakieva G. T., Dairabayeva N.O.). The article presents methods of critical thinking, their purpose, objectives and effectiveness of use during the lesson. The contribution of a doctoral student to writing an article is 75%.

The state of study of the problem of the development of students' intelligence. Materials of the international scientific-practical conference "Actual problems of national education of young people in modern conditions." - Almaty: Abai Kazakh National Pedagogical University, publishing house "Ulagat", 2020. - p.211-215. (Kosshygulova A. S.) In this article, after analyzing the works of scientists on the philosophical, psychological, pedagogical study of intelligence, the author gives his definition. The contribution of a doctoral student to writing an article is 80%.

Critical thinking as a factor of future primary education teachers' intellectual development. "Innovations in Education and Science". Materials of the II International Scientific and Methodological Conference. - Almaty: 2018. - p. 40-43. (Mustafa Kale). The article considers critical thinking as a factor of intellectual development of future primary school teachers, defines the most important qualities of intelligence, its flexibility and mobility, consistency, and their characteristics. The contribution of a doctoral student to writing an article is 70%.

Methodological guide:

Development of intellectuality based on critical thinking: Methodological guide / - Almaty, 2019. - p.71. ISBN 978-601-08-1462-2. The methodological manual consists of 2 sections. Section 1 contains standard lesson plans conducted at the university (lecture, practical lesson, SRSP), section 2 - trainings and exercises for the development of intelligence (Amirova A. S.). The contribution of a doctoral student to writing a methodological manual is 85%.

These publications are mainly self-made works, reflect the content of the doctoral dissertation, and correspond to the results of the study.