

Actual Problems of the Neurolinguistic Approach in the Education of the Mother Tongue of the Primary Grade

Togayeva Umida, Ph.D

*Bukhara State University Department of primary education senior teacher, pedagogical sciences
Doctor of Philosophy*

Annotation: this article presents the actual issues of teaching the mother tongue teaching method based on the neurolinguistic approach, the possibilities of developing educational tasks from the mother tongue based on the neurolinguistic approach, the specific features of using best practices in the teaching process.

Keywords: neurolinguistics, neurolinguistic approach, creative thinking, reading, writing, listening comprehension, speaking, traditional education, non-traditional education, independent thinking.

Introduction. Changes in all spheres are clearly visible in the modernizing Uzbekistan. The reforms implemented on all fronts are rapidly yielding their results. It is known from the experience of developed countries that organizing education based on a new approach is the most effective method that guarantees a good result in the development of the socio-economic, spiritual and educational sphere. The introduction of various technologies and scientific media in education made it possible to provide a large amount of information in a short time. This allows the student to increase the necessary educational material in a short time from the first lesson. With this goal in mind, the use of intensive teaching technologies is an effective way to increase the educational material.

The organization of educational activities in new modern forms and methods, the ability to purposefully manage students in the course of the lesson, is considered the main criterion of teaching activity. The use of modern lesson types and forms based on advanced pedagogical technology means determining the student's place in the educational process, providing a new approach to it, providing a new attitude, managing this process with skill and understanding. The purpose of conducting competition lessons in native language classes is to test the knowledge of the student in the language class, to be able to use the possibilities of the language in the process of mutual discussion and communication, to assess the level of speech skills, quick and clear thinking, and the ability to get out of problematic situations.

In the years of independence, the issue of the content, purpose and method of education in the mother tongue was put on the agenda and resolved. The educational content consists of a series of theoretical knowledge derived from the nature of the mother tongue. The purpose of education was “to improve students' oral and written speech, to form the ability to correctly express the product of thought in oral and written forms in accordance with the conditions of speech.” The educational method has changed from reproductive (retelling) to cognitive-pragmatic (independent and creative thinking and expressing it according to speech conditions). This can be evaluated as an unprecedented event in the history of mother tongue education.

Neurolinguistics is a new branch of linguistics that studies the relationship between language and the structure and function of the brain. It appeared to meet the needs of clinical diagnostic tasks. Its purpose is to observe and control the use of the patient's speech style (interview, graphic, narrative, reading, writing, etc.). For neurolinguistics, observing the speech and behavior of people with brain damage while learning two or more languages is a very important issue.

The main part. Neurolinguistics historically emerged in the 19th century in the age of aphasiology, the study of linguistic deficits (aphasias) caused by brain damage. Aphasiology attempts to link structure to function by analyzing the effects of brain injuries on language processing. One of the first to make the connection between a specific brain area and language processing was the French surgeon Paul Broca, who performed autopsies on many people with speech disabilities, and most of them had left frontal lobes. discovered brain damage in what is now known as Broca's area.

Phrenologists in the early 19th century claimed that different brain regions performed different functions and that language was mainly controlled by the frontal lobes of the brain, but Broca's research was the first to provide empirical evidence of such a relationship. It has been described as "groundbreaking" and "fundamental" for the fields of neurolinguistics and cognitive science. Later, Carl Wernicke, Wernicke's area was named after him.

Different areas of the brain specialize in different linguistic tasks, with Broca's area involved in the motor production of speech and Wernicke's area controlling auditory speech comprehension.

Broca and Wernicke's research created the field of aphasiology and the idea that language can be studied by studying the physical properties of the brain. Early work in aphasiology also benefited from Corbinian Brodmann's early 20th-century "mapping" of the brain's surface, that is, dividing each area into numbered regions based on its cytoarchitecture (cellular structure) and function. these areas are still widely used in neuroscience today and are now referred to as Brodmann's areas.

The term neurolinguistics is credited to Edith Crowell Trager, Henry Hecaen, and Alexander Luria in the late 1940s and 1950s. Luria's book, *Problems in Neurolinguistics*, is probably the first book on neurolinguistics. Harry Whitaker popularized neurolinguistics in the United States in the 1970s, founding the journal *Brain and Language* in 1974.

Although aphasiology is the historical core of neurolinguistics, the field has expanded significantly in recent years, in part because of new brain imaging technologies and the advent of time-sensitive electrophysiological techniques that highlight brain activation when humans perform a variety of language tasks, particularly , in 1980, with the discovery of the N400, which is sensitive to semantic problems in language comprehension, electrophysiological techniques emerged as a viable method for language learning. The N400 was the first language-related brain response to be identified, and since its discovery, EEG and MEG have been increasingly used to conduct language studies.

Neurolinguistics is closely related to the field of psycholinguistics, which seeks to elucidate the cognitive mechanisms of language by using traditional methods of experimental psychology; today, psycholinguistic and neurolinguistic theories often inform each other, and there is much collaboration between the two fields.

The method of teaching the mother tongue in primary grades is the first stage of the method of teaching the mother tongue in the upper grades, and it teaches the students of the primary grade practically (accordingly) the issues it examines. At the same time, there are specific features of the native language teaching methodology in primary classes. Teaching the mother tongue in primary grades includes not only grammar, spelling and related speech development methods, but also methods of reading and writing in the classroom and outside the classroom. Based on this, the science of mother tongue teaching methodology in primary grades performs the following tasks:

- a) determining and justifying the content, size and existing system of the native language course in primary grades, that is, the program of the course (literacy, reading, grammar, spelling, speech development, etc.);
- b) to study the process of formation of knowledge and skills from reading and writing, as well as the difficulties faced by students in this process, to analyze the cause of mistakes, to develop types of work that help to prevent and correct them;
- c) students' clear understanding and thorough assimilation of the educational material given in their native language, the ability to apply the knowledge they have acquired in practice and the general development of students, that is, their intelligence, memory, observation, keeping in mind, logical thinking, development of methods and tools that help to develop creative thinking and speech;
- d) Implementation of educational tasks set before schools in connection with teaching the mother tongue, formation of moral and aesthetic qualities in students.

The importance of the neurolinguistic approach is high in primary education mother tongue education. Because it is necessary to take into account the psychological and physiological characteristics of a primary school student. It is especially appropriate to use the neurolinguistic approach when creating educational tasks related to stories. For example, in the 4th grade reading textbook, Mary Joslin's story "The Pearl" can be taught through creative tasks to develop critical thinking skills. Answers to the following questions are sought in 2 stages:

Stage 1	Stage 2
1. Why was Robin not happy even though he was rich?	1. Why did the girl say that the pearl was really Josh's?
2. Why did Roben want to return to the place where he was born and raised?	2. Why did Josh tell Reuben that he could have the pearl?
3. Why do you think the name of the story is "Pearl"?	3. How did Reuben's life change after he received the pearl? Explain with examples.

In order to find answers to these questions, the reader first makes a deep observation about the events in the story. He thinks critically by answering questions, answers based on his own psychology.

Conclusion. Much work in neurolinguistics involves testing and evaluating theories advanced by psycholinguists and theoretical linguists. In general, theoretical linguists propose models to explain the structure of language and how linguistic information is organized, psycholinguists propose models and algorithms to explain how linguistic information is processed in the mind, and neurolinguists analyze brain activity to determine what biological structures are.

The use of the neurolinguistic approach in teaching the native language to elementary school students develops students' independent thinking skills and is of great importance in forming critical thinking skills.

References:

1. Kaplan, David, Gloria Waters, David Kennedy, Nathaniel Alpert, Nikos Makris, Gail De, Jennifer Michael, and Amanda Reddy. 2007. Learning syntactic processing in aphasia II: Neurological aspects. *Brain and Language* 101, 151-177.
2. Gardner, Howard. 1975. *The Disrupted Consciousness: Man After Brain Injury*. Vintage books.
3. Analyzing Aphasic Speech and Communication, in *Psycholinguistics: An Introduction and Applications*. Plural publishers.
4. Tog'ayeva, U. (2020). IMPROVING THE MODULE" MOTHER TONGUE TEACHING

- METHOD" IN PROJECT EDUCATIONAL INSTRUCTIONS. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz)*, 2(2).
5. Tog'ayeva, U. (2020). SCIENTIFIC-THEORETICAL BASES OF USE OF PEDAGOGICAL TECHNOLOGIES IN TEACHING METHODS OF MOTHER TONGUE. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz)*, 2(2).
 6. Tog'ayeva, U. (2021). "ONA TILI O'QITISH METODIKASI" MODULINI O'QITISHDA AXBOROT KOMMUNIKATSIYA TEXNOLOGIYALARIDAN FOYDALANISH. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz)*, 1(1).
 7. Tog'ayeva, U. (2021). Роль проектного обучения в совершенствовании модуля методики обучения родному языку. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz)*, 8(8).
 8. Tog'ayeva, U. S. Q. (2021). ONA TILI O'QITISH METODIKASI MODULINI TAKOMILLASHTIRISHDA LOYIHAVIY TA'LIMDAN FOYDALANISH. *Scientific progress*, 2(7), 1022-1026.
 9. Tog'ayeva, U. (2021). ЗНАЧЕНИЕ ПРОЕКТНОГО ОБРАЗОВАНИЯ В СОВЕРШЕНСТВОВАНИИ МОДУЛЯ МЕТОДОЛОГИИ ОБУЧЕНИЯ РОДНОМУ ЯЗЫКУ. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz)*, 8(8).
 10. Sidikova, S. D. (2021). Theoretical and didactic principles of distance learning. *Academicia: an international multidisciplinary research journal*, 11(1), 541-548.
 11. Shavkatovna, S. D. (2021). OLIYGOHLARDA MASOFAVIY TA'LIMDAN FOYDALANISH IMKONIYATLARI. In Научно-практическая конференция.
 12. Sidiqova, D. (2021). ФОРМИРОВАНИЕ ПРОФЕССИОНАЛЬНОЙ КОМПЕТЕНТНОСТИ СТУДЕНТОВ В КОНТЕКСТЕ ДИСТАНЦИОННОГО ОБРАЗОВАНИЯ. *ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz)*, 6(6).
 13. Jobirovich, Y. M. (2023). EXPRESSION OF DIDACTIC GAMES IN PRIMARY EDUCATION THROUGH DIGITAL TECHNOLOGIES. *Horizon: Journal of Humanity and Artificial Intelligence*, 2(5), 93-97.
 14. Yunus, Y., & Yarashov, M. (2023). Effectiveness of experimental work aimed at forming general labor skills in students based on gender equality and differences. In *E3S Web of Conferences* (Vol. 420, p. 06011). EDP Sciences.
 15. Hamroyev, A. R. (2021). Designing students' creative activity in primary school mother tongue education as a methodological problem. *Middle European Scientific Bulletin*, 11.
 16. Khamroev, A. (2021). Quality and effectiveness for design of learning outcomes in the language teaching. *ACADEMICIA: AN INTERNATIONAL MULTIDISCIPLINARY RESEARCH JOURNAL*, 11(1), 549-558.
 17. Himoyeva, S. J. (2020). UMUMUMIY O'RTA TA'LIM MAKTABLARI O'QUVCHILARINING YOZMA NUTQINI INSHO YOZISH ORQALI RIVOJLANTIRISH USULLARI. *Студенческий вестник*, (19-12), 99-100.
 18. Hamroyev, A. R., & Himoyeva, S. J. (2023). TECHNOLOGY OF CREATING EDUCATIONAL TASKS. *Horizon: Journal of Humanity and Artificial Intelligence*, 2(5), 80-83.
 19. Himoyeva, S. (2023). ONA TILI VA O'QUVCHILARINING O'QUV-BILUV KO'NIKMALARNI SAVOL-JAVOB TARZIDA AMALGA RIVOJLANTIRISH. *Science and innovation in the education system*, 2(9), 44-47.