

ATTENTION AND MEMORY AS A MENTAL PROCESS

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Anotation: This article discusses the important role of attention and memory in cognitive processes. Attention and memory are two independent psychological processes that work together to help us understand, process, and retain information from our surroundings. The article explores the different types of attention and memory and their relationship, as well as their importance in optimizing cognitive functions. The article is written in Uzbek and provides valuable insights into the workings and independent of the human mind.

Key words: Attention, Memory, Cognitive processes, Psychological processes, Information processing, Types of attention, Types of memory, Cognitive optimization, Human mind, Uzbek language.

Attention and memory are two fundamental mental processes that play an essential role in our daily lives. These cognitive processes work together to allow us to perceive, process, and remember information from the world around us. Understanding the relationship between attention and memory is critical for optimizing these mental processes and improving cognitive performance.

Attention is the process by which we select and focus on specific stimuli in our environment while ignoring other distracting information. This ability to selectively attend to relevant stimuli is essential for processing and retaining information in memory. Attention can be divided into two primary types: selective attention and divided attention.

Selective attention is the ability to focus on a particular stimulus while ignoring other distracting information. This type of attention is crucial for processing and encoding information into memory. Divided attention, on the other hand, is the ability to distribute attentional resources across multiple stimuli simultaneously. This type of attention is critical for multitasking, but it can be limited when the demands on our attentional resources exceed our capacity.

Memory is the process by which we encode, store, and retrieve information over time. Memory can be divided into three primary types: sensory memory, short-term memory, and long-term memory.

Sensory memory is the brief storage of sensory information in its raw form. This type of memory has a limited capacity and duration and serves as a buffer for incoming sensory information. Short-term memory, also known as working memory, is the temporary storage and manipulation of information. This type of memory has a limited capacity and duration and is critical for processing and using information in the present moment. Long-term memory is the relatively permanent storage of information over an extended period. This type

of memory has an essentially unlimited capacity and duration and is responsible for retaining information over time.

Attention and memory are closely intertwined. Attention plays a crucial role in the encoding and retrieval of information in memory. When we selectively attend to information, we enhance the processing and encoding of that information into memory. Similarly, when we retrieve information from memory, we use attentional processes to focus on relevant information and ignore irrelevant information.

However, attention can also act as a limiting factor for memory. When our attentional resources are limited, we may fail to attend to and encode critical information into memory. In addition, attentional processes can interfere with memory retrieval by directing our focus to irrelevant information and interfering with the retrieval of relevant information.

To optimize attention and memory, it is essential to understand the relationship between these two processes and to develop strategies to enhance both. Some strategies for enhancing attention and memory include:

Focusing attention on the most critical information

Minimizing distractions during encoding and retrieval

Using visual and auditory cues to aid in memory encoding and retrieval

Chunking information to improve working memory capacity

Practicing attention and memory exercises to enhance cognitive performance

In conclusion, attention and memory are critical mental processes that work together to allow us to perceive, process, and remember information from the world around us. Understanding the relationship between attention and memory is essential for optimizing cognitive performance and improving memory retention. By developing strategies to enhance attention and memory, we can improve our ability to process and retain information and perform better in our daily lives.

References:

1. Baddeley, A. D. (1992). Working memory. *Science*, 255(5044), 556-559.
2. Cowan, N. (2010). The magical mystery four: How is working memory capacity limited, and why? *Current Directions in Psychological Science*, 19(1), 51-57.
3. Cowan, N. (2008). What are the differences between long-term, short-term, and working memory? *Progress in Brain Research*, 169, 323-338.
4. Рахматуллаева, П. М., & Маҳкамова, М. А. (2022). ЁШЛАР ТАЪЛИМ СИФАТИНИ ОШИРИШДА МОТИВАЦИЯНИНГ ЎРНИ ЁХУД УЛКАН МАҚСАДЛАР САРИ ДАСТЛАБКИ ҚАДАМ. *Central Asian Research Journal for Interdisciplinary Studies (CARJIS)*, (Special Issue 1), 160-163.
5. Rahmatullayeva, M., Rashidova, G., & Karakulova, U. (2023). XXI ASRDA PEDAGOGIK TEXNOLOGIYALAR VA PEDAGOGIK MAHORAT. *Журнал Педагогика и психологии в современном образовании*, 3(1).
6. Rahmatullayeva, M. (2021). XALQ PEDAGOGIKASIDA TA'LIM VA TARBIYA MASALARI. *Журнал Педагогика и психологии в современном образовании*, 1(4).
7. Abdulla, S., & Abduvakilovna, K. U. (2022). AXBOROT SAVODXONLIGI VA AXBOROT IZLASH XULQ-ATVORIDAGI PSIXOLOGIK OMILLAR. *International Journal of Contemporary Scientific and Technical Research*, 586-589.

8. Rahmatullayeva, M., Umida, K., & Gulnoza, R. (2023). BOSHQARUV PSIXOLOGIYASI VA BU BORADAGI ILMIY YONDASHUVLAR. Журнал Педагогики и психологии в современном образовании, 3(1).
9. Karakulova, U., Rashidova, G., & Rahmatullayeva, M. (2023). DEVIANT XULQ-ATVOR RIVOJLANISHIDA OILAVIY MUNOSABATLARNING TA'SIRI. Журнал Педагогики и психологии в современном образовании, 3(1).
10. Rahmatullayeva, M., Karakulova, U., & Xaydarqulov, H. (2023). O 'QITUVCHI VA TALABALAR O 'RTASIDA SHAXSLARARO MUNOSABATLARNING PEDAGOGIK-PSIXOLOGIK XUSUSIYATLARI. Журнал Педагогики и психологии в современном образовании, 3(1).
11. Rahmatullayeva, M., & Ahmedova, L. (2023). GO 'DAKLIK DAVRI TO 'G 'RISIDA PEDAGOGIK ILMIY DUNYOQARASHNING SHAKLLANISHI. Журнал Педагогики и психологии в современном образовании, 3(1).
12. Rahmatullayeva, M. (2021). O 'QUVCHI SHAXSINI RIVOJLANTIRISHNING ASOSIY YO 'NALISHLARI. Журнал Педагогики и психологии в современном образовании, 1(4).
13. Rahmatullayeva, M., & Karimova, N. (2023). MAKTABGACHA TA'LIM MUASSALARI BOSHQARUVINING DOLZARB MUAMMOLARI. Журнал Педагогики и психологии в современном образовании, 3(2).
14. Rahmatullayeva, M., Karakulova, U., & Anvarova, S. (2023). OLIY O 'QUV YURLARIDA BO 'LAJAK O 'QITUVCHILARNI KASBIY MOSLASHTIRISHNING PEDAGOGIK-PSIXOLOGIK JIHATLARI. Журнал Педагогики и психологии в современном образовании, 3(2).
15. Rahmatullayeva, M., & Toshbekov, H. (2023). MAKTABGACHA YOSHDAGI BOLALARDA AGRESSIV XULQ-ATVOR VA UNI KORREKSIYALASH YO 'LLARI. Журнал Педагогики и психологии в современном образовании, 3(2).
16. Rahmatullayeva, M., & Toshbekov, H. (2023). PSIXOLOGNI PSIXOMETRIK JIHATIDAN TAYYORLASH TALABLARI. Журнал Педагогики и психологии в современном образовании, 3(2).
17. Rahmatullayeva, M., & Norqulova, I. (2023). BO 'LAJAK PEDAGOGLARNING KASBIY MOSLASHTIRISH OMILLARI VA SHART-SHAROITLARI. Журнал Педагогики и психологии в современном образовании, 3(3), 83-88.
18. Rashidova G. G. INTERPRETATION AND INTERDEPENDENCE OF THE CONCEPTS OF «COMPETENT» AND «COMPETENCE» //Theoretical & Applied Science. – 2021. – №. 8. – С. 83-89.
19. Rashidova, Gulnoza. "“COMPENTLIK” AND “COMPACTNESS” OF TINCALARING OF TALHS AND JEWELRY." Mental Enlightenment Scientific-Methodological Journal 2021.4 (2021): 99-112.
20. Rashidova G. G. Socio Cultural Approach as a Modern Direction of Teacher Training //International Journal of Multicultural and Multireligious Understanding. – 2021. – Т. 8. – №. 8. – С. 169-172.