



# **REASON AND THINKING: THE IMPORTANCE OF INTELLECTUAL GAMES IN SCIENTIFIC CREATIVITY**

**Shoira Kubaeva**

Doctor Of Philosophy

Samarkand branch of the Tashkent University of Information Technologies

**Abstract:** the article highlights the importance of intellectual games in the development of human consciousness, thinking and scientific thinking. It is shown that games, especially intellectual games, play an important role in self-expression and strengthening of knowledge. The influence of games such as chess, puzzles, strategic games on scientific thinking, logical and abstract thinking is analyzed. The article also considers the role of intellectual games in socio-cultural development, in particular, as a pedagogical tool in educational practice. It is emphasized that creative and communicative abilities of a person can be developed through intellectual games.

**Keywords:** intellectual games, scientific thinking, cognitive ability, critical thinking, education, social development.

## **I. Introduction**

A person stands out as a complex being consisting of his brain and mind, body and soul, and the unity of thought. From this point of view, a person's ability to live and develop is shaped by his brain activity. In particular, various intellectual activities that stimulate brain activity, including intellectual games, help to strengthen a person's mind and thinking. Intellectual games are one of the most effective tools for improving cognitive abilities and thinking efficiency. No other activity can activate the psychological and intellectual capabilities of a person like intellectual games.

Play is a free form of enjoyment and satisfaction through imitation, expression and achievement, which provides an effective platform for human development and self-expression. In particular, chess, mathematical puzzles and other abstract intellectual games increase a person's ability to think scientifically and serve to develop critical thinking. Therefore, today, intellectual games occupy an important place in the process of training specialists in the social and cultural sphere, and their effective use in educational practice is one of the main directions of modern pedagogy.

## **II. Literature Review**

Man is a being consisting of brain and mind, body and soul, unity of thought. From this point of view, the activity of the human brain creates characteristics that ensure its viability. Intellectual games are one of the types of activities that strengthen the human mind, or rather



brain activity. No exercise can increase the cognitive ability and thinking efficiency of the human mind like intellectual games.

A game is a behavior (imitation, expression, striving for achievement) characteristic of creatures with a highly developed psychophysiology. [1] It should also be noted that in no other type of activity can a person demonstrate his attractive mental, physiological and intellectual state as in a game. At the same time, there are intellectual (chess, mathematical, abstract, i.e., theoretical-symbolic) models of the game, in which, along with pleasure and satisfaction, goals and achievements take a place.

Intellectual games can be an interesting and effective way to develop a person's ability to think scientifically. They can be enjoyed by people of all ages and skill levels and can be a valuable tool for learning and development.

Mental games such as chess, puzzles, quizzes, strategy games have a significant impact on the development of scientific thinking. These can be seen in the development of critical thinking, a pragmatic approach to problem solving, logical and abstract thinking, the effective mechanism of focusing attention on the main issue, the development of memory and cognitive ability, the ability to think creatively, and increase the quality of communication.

### **III. Methodology & Empirical Analysis**

It is known that for scientific thinking, it is necessary to analyze data on the object of research, to be able to correctly forecast existing situations, and to find solutions. In intellectual games, players pay attention to these aspects. That is, analyzing information, evaluating situations, and finding solutions are the main requirements of intellectual games. The formation of these skills helps to develop the ability to formulate hypotheses, logical analysis, and test theories in scientific thinking.

Most intellectual games involve solving complex problems and finding optimal solutions. For example, chess, checkers. It helps to develop the skills of systematic approach and methodical search for solutions, which are important for scientific research and engineering activities. Chess, puzzles and math games require logical and abstract thinking. These skills are fundamental to scientific thinking because they help model and analyze abstract concepts and relationships. Participating in intellectual games requires concentration and attention to detail. These qualities are very important for scientific research, where the player concentrates as much as possible on the situations in the game, taking into account that even small mistakes can affect the results. Analyzes the ways to the result in every way. This improves the ability to focus the attention required of the researcher on the actual, theoretically and practically based topic and distinguish the object of research as clearly as possible.

As you know, many brain games require memorization of rules, strategies and previous actions. It improves working memory and cognitive abilities, which are useful for learning complex scientific topics and conducting experiments.[2] In another aspect, taking into account that games usually have a team character, it is possible to form teamwork and communication skills based on them. Because brain games, such as team quizzes or role-playing games, help develop teamwork and communication skills, which are important for scientific projects and research.



Scientific knowledge and research require a person to think creatively. Strategic and creative games, on the other hand, require thinking outside the same standard form and generating new ideas.

#### IV. Results

It is often the search for original solutions and approaches to solving problems. Regular participation in intellectual games helps not only to improve cognitive abilities, but also to develop the basic skills necessary for scientific work.

In our opinion, the intellectual game is a reflection of the activity that regulates the creative activity of a person, determines the entire spiritual potential of a person in learning, spending free time, and developing certain qualities and characteristics. is an important and promising task in educational practice. In combination with modern pedagogic tools, the intellectual game should occupy a worthy place in the teaching practice, because, unlike many traditional methods, it is more important to preserve and spread cultural values, perform social-organizational and socio-pedagogical functions. aimed at forming important professional personal qualities necessary for

In another aspect, in the study of general professional sciences, organizing research using intellectual games, comparative analysis, results of experimental work, and in accordance with the developed methods that confirm the hypothesis, intellectually think about the professional important personal qualities of the future socio-cultural specialist. made it possible to determine the objective factors that determine the development through games.

Bunga ta'limda faol innovatsion texnologik vositalardan, shu jumladan intellektual o'yinlardan foydalanish amaliyoti orqali erishish mumkin.

#### V. Conclusions

Intellectual games are of particular importance as an effective means of developing a person's thinking, memory, attention and creative abilities. In addition to strengthening cognitive skills, these games play a major role in developing critical thinking, logical analysis, systematic problem solving, and team communication skills. The use of intellectual games in today's educational process not only stimulates personal development, but also serves to form approaches based on scientific thinking. Therefore, intellectual games should be actively used as an innovative tool in educational practice and training of future specialists. This approach not only makes the learning process interesting and effective, but also creates the ground for the development of scientific research and creative activity.

1. Importance of intellectual games: These games play a major role in the development of thinking and cognitive abilities of a person, and in activating the mind.

2. Development of cognitive skills: Intellectual games are an effective tool for developing critical thinking, logical analysis and problem solving skills.

3. Supporting creative thinking: Strategic and creative games require a person to think outside the usual framework and find new solutions.



4. Attention and memory development: Strengthens memory and improves recall by focusing attention, paying attention to details and following rules.

5. Formation of teamwork skills: Through team games, communication, team work skills are developed, and mutual understanding and cooperation skills increase.

6. Usage in education: Intellectual games appear as an effective method used in the educational process to interest students, preserve their cultural values and socio-pedagogical functions.

7. Formation of professional qualities: Through intellectual games, important professional personal qualities necessary for future professionals are developed, which serves to make them competitive in the labor market.

8. Development of key skills for scientific research: Knowledge and skills acquired in games develop creative, analytical and problem-thinking skills that can be used in research.

9. Combination with innovative technologies: Scientific approaches are formed by using intellectual games together with modern educational technologies, which gives a great perspective in the development of educational practice.

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