

PROFESSIONAL EXERCISES OF CREATIVE THINKING DEVELOPMENT FOR MALE CHESS TEAM AT HANOI PEDAGOGICAL UNIVERSITY 2

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Abstract::

Using the common scientific research methods, the research has selected 6 professional exercises to develop creative thinking skill of male Chess team of Hanoi Pedagogical University 2, and developed plans to apply the exercises in practice and evaluated their effectiveness. As a result, after 4 months of experiment, the exercises have achieved high efficiency in developing the creative thinking skill for the subjects.

Key words: Creative thinking skill, Chess, professional exercises, Chess athletes.

INTRODUCTION

Characteristics of Chess is a "mind sports" with a typical amount of movement is the amount of psychological movement, directly affecting the thinking process. Research and use of assessment methods as well as means of developing thinking skill are essential for Chess athletes. Therefore, the study and application of professional exercises to develop the creative thinking skill of the students of the Chess team is very necessary, contributing to improve the training quality and performance for male Chess team of Hanoi Pedagogical University 2.

RESEARCH METHODS

During the research, we have used the methods of material synthetics and analysis, interview and discussion, pedagogical observation, pedagogical examination, pedagogical experiment and mathematical statistics.

The study has used 3 tests to assess the creative thinking skill of the subjects, including test of selecting optimal choice (points); test of first move advantage taking (points) and 30-minute game (points).

RESULTS AND DISCUSSION

1. Selection of several exercises to develop creative thinking skill for male Chess team of Hanoi Pedagogical University 2

Based on the current situation of thinking capacity and physical strength training level, age and gender of the team, we have conducted interviews with teachers, coaches and experts of Chess on the selection and application as well as the importance of the exercises in developing creative thinking capacity for male Chess team at Hanoi Pedagogical University 2.

As a result, we have selected 6 groups of exercises to develop creative thinking capacity for male Chess team in Hanoi Pedagogical University 2. Specifically:

1. Exercises of finding combination (points):

+ Purpose: To develop board vision, an important component of the creative thinking capacity of the Chess

+ Requirements and methods of implementation:

The type of exercise is a finding combination form with theme of attacking the center, King and Queen, which only uses the Hanging Chessboard (do not move pieces on the Chessboard). The solution is recorded on the test paper. Time is 2 minutes.

+ Evaluation: Do 5 exercises. Each one has a maximum of 2 points

2. Exercises of selecting optimal choice (points):

+ Purpose: To develop the creative ideas as choosing the optimal choice in the fixed Chess positions

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Developing the ability of creative thinking is very important in subject of chess practice

+ Requirements and methods of implementation: maximum of 2 points

The subjects conduct the exercises in 2 minutes. Each one has a Chessboard. The solutions of the optimal choice are recorded on the test paper.

Evaluation: Do 5 exercises. Each one has a maximum of 2 points

3. Exercises of ability to calculate the transformable positions (points)

+ Purpose: To develop the independence, creativity in thinking of students and athletes

The exercises are given with the teacher's instructions.

+ Requirements and methods of implementation:

The subjects conduct the exercises in 2 minutes and only use the Hanging Chessboard (do not move the pieces on the Chessboard). The solutions are recorded on the test paper.

Evaluation: Do 5 exercises. Each one has a maximum of 2 points

4. Exercises of checkmate after two moves (points):

+ Purpose: To improve the thinking speed of the subjects

+Requirements and methods of implementation:

The subjects conduct the exercises in 2 minutes and only use the Hanging Chessboard (do not move the pieces on the Chessboard). The solutions are recorded on the test paper.

Evaluation: Do 5 exercises. Each one has a

5. Exercises of first move advantage taking (points):

+ Purpose: To develop the capacity of creative thinking of the subjects

+ Requirements and methods of implementation:

Chess positions have been set up, which the first move takes advantages. The subjects conduct the exercises in 2 minutes and only use the Hanging Chessboard (do not move the pieces on the Chessboard). The solutions are recorded on the test paper.

Evaluation: Do 5 exercises. Each one has a maximum of 2 points

6. Exercise of assessing arising options (points).

+ Purpose: To develop the capacity of creative thinking of the subjects

+ Requirements and methods of implementation:

Chess positions have been set up. The subjects make the options that may arise leading to the advantages. The subjects conduct the exercises in 2 minutes and only use the Hanging Chessboard (do not move the pieces on the Chessboard). The solutions are recorded on the test paper.

Evaluation: Do 5 exercises. Each one has a maximum of 2 points

2. Determination of selected exercises efficiency to creative thinking development for male Chess team of Hanoi Normal University 2

2.1. Pedagogical experiment organization

a. Subjects: 25 male Chess team, at Hanoi Pedagogical University 2, divided into 2 groups: Control group and experimental group.

b. Duration: 4 months, 3 sessions per week, 120 minutes per session. The time is 96 hours.

c. Experimental process: Both the control and experimental groups study and practice the same content as in the program and process of Chess teaching used for the University team. The control group uses the current exercise of the team. The experimental group uses the exercises that we have recently selected (6 exercises mentioned in item 3.1).

d. Content and methods of examination: In both groups, we have conducted the tests at times of before, during (after 2 months) and experimental end (after 4 months) through professional tests (3 tests mentioned in item 3.2). The tests at each examination have the same purpose and requirements but different specific positions.

2.2. Results and analysis of results of selected exercises

Before experiment, we have used 3 tests presented in the content of research methods to examine and compare the creative thinking skill of the students in experimental and control groups. The results show that the difference in the performance of the two groups has no significance with $t_{\text{calculation}} < t_{\text{table}} = 2.069$ at the probability threshold $P = 5\%$. In other words, the creative thinking capacity of the two groups is similar.

In the middle of the experiment, we have also used the selected tests to examine and compare the difference in the results of the creative thinking examination of the two groups. The results show that 2 out of 3 tests have a statistically significant difference, in which the experimental group gets better results. This proves that the selected exercises of the study have efficiency in developing creative thinking capacity for the students in experimental group.

After 4-month experiment, to determine the efficiency of the exercises to improve the capacity of creative thinking for the students, we have examination results of both control and

experimental groups. The results of the 2 groups have statistically significant difference (all 3 tests have $t_{\text{calculation}} > t_{\text{table}} = 2.069$ at the probability threshold $P < 0.05$). In other words, the results of creative thinking examination of the experimental group gain much better than the control group. This confirms the efficiency of the exercises, which the study has applied to the creative thinking improvement for male Chess team in Hanoi Pedagogical University 2 in the experimental group. Besides, the above results show that the minimum application time of 4 months with the selected 6 exercise groups have exposed the performance on the study subjects.

CONCLUSION

The research results have selected 6 exercises, which show high efficiency on the creative thinking development for the students of the male Chess team of Hanoi Pedagogical University 2. Specifically:

- + Exercises of finding combination (points):
- + Exercises of selecting optimal choice (points):
- + Exercises of ability to calculate the transformable positions (points)
- + Exercises of checkmate after two moves (points):
- + Exercises of first move advantage taking (points):
- + Exercise of assessing arising options (points).

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