

MEASURES TO PERFORMANCE IMPROVEMENT OF TEACHING NATURAL SCIENCES SUBJECTS FOR STUDENTS CLASS 10, 11, 12 AT OLYMPIC HIGH SCHOOL FOR SPORTS GIFTED

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Abstract:

By the common research methods in sports, the study has proposed measures to improve the performance of teaching Natural Science subjects. The results of initial application show that the measures have effectiveness, gradually improving the teaching performance for students.

Key words: Teaching methods, Natural Sciences, high school for gifted, sports..

INTRODUCTION

Renovation of teaching methods in the direction of promoting self-awareness and activeness of students is the international trend in education reform in high schools today. With the specific characteristics of sports gifted students, it is very necessary and prior to promote self-awareness and activeness of students in the teaching.

RESEARCH METHODS

To solve the research tasks the study has used the methods of document analysis and synthesis; interview, experts, mathematical statistics.

RESULTS AND DISCUSSION

1. Principles for selection of teaching methods for students at Olympic High School for Sports Gifted

The students at Olympic High School for Sports Gifted have strictly limited knowledge of cultural subjects in general and Natural Sciences subjects in particular. Thus, it is necessary to make orientations on the renovation of teaching methods associated with cognitive thinking through practical activities, effective teaching of being easy to understand, remember and apply, ensuring the principle of adherence to the students, suitable learners in combination with the application of active teaching methods.

2. Teaching methods of Natural Science subjects for students at Olympic High School for Sports Gifted

Through analysis and synthesis of relevant documents, we have proposed 7 measures. We have interviewed 8 teachers to select appropriate measures. As a result, we have selected 5 measures with the number of rated teachers more than 75% and applied in the teaching of Natural Science subjects for students at Olympic High School for Sports Gifted. The content of measures is specific as follows:

Measure 1: Enhance learning interest in direction of applying to professional practice at Olympic High School for Sports Gifted

Purpose: Combine theory with practice in the field of sports and learn the teachings of President Ho Chi Minh: "Learning to practice, learning must go together with practice. Learning without practice is futile. Working without learning is not smooth. "

Implementation: The students actually work in an environment of interaction between the teacher and the student, individual and individual, individual and group or the active, independent activities by individual and the knowledge, material to gain highest teaching effectiveness.

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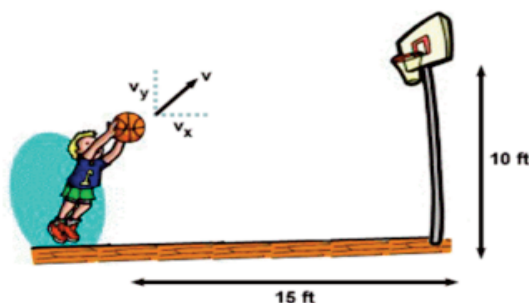
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In the process of teaching, teachers should try to introduce examples related to the profession of students, help students see the role of the subject in professional practice, increasing the interest in learning of students.

Measure 2: Improve active learning methods for students; Develop intuition when contacting with practice associated with subject's specific characteristics

Purpose: Intuition is to "directly see" the concepts or events of the problem. At high level, intuition determines the ability to solve new situations, discover potential mistakes, contributing to practice the student's ability of prediction, generalization, association, etc.

Implementation: Intuition development for students considered as one of the important measures to achieve the objectives of the lesson. To do this in the content and learning methods, teachers need to carry out in each stage and typical situations of teaching process: Teaching concept, proving theorem, solving practical problem.



Basketball players need to select the appropriate position in order to reach a good pitch for throwing, which achieved when the athlete chooses the throwing direction as close to the bisector of first quadrant.

Measure 4: Teaching in direction of interdisciplinary integration

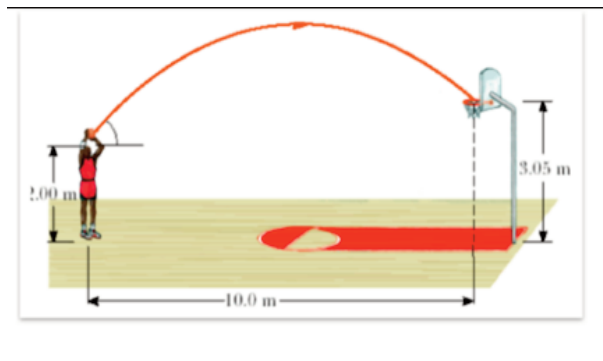
Purpose: Develop students' capacity, help them to solve problems in real life, meet the complex requirements of an activity to ensure that the activity achieves good results in a certain context (situation), offload knowledge is not really worth, creating conditions to increase useful knowledge acquirement, etc.

Implementation: At the beginning, the specialized groups have discussed and assigned

Measure 3: Enhance use of teaching aids and appropriate application of Information Technology to teaching process.

Purpose: The current development of Information Technology has had great impact on the educational environment. Therefore, the research and use of the Information Technology tools to solve problems will bring various practical benefits, initial developing knowledge for students.

Implementation: While studying in the school, students are able to not only acquire the knowledge through lectures but also find and create new knowledge through books, materials, Internet network, etc. Teachers guide students to solve the problem by using Information Technology tools, which increase the interest and curiosity in science, stimulating their discovery activities. This leads to the development of new knowledge and skills. For example, in basketball.



the coordinator to implement. Through the implementation of teaching interdisciplinary integration topics and group activities, teachers help each other to improve their capacity so that everyone can take many subjects in the integrated subjects.

The management of teaching interdisciplinary integration topics should be implemented in the direction of ensuring the self-control of the schools, professional groups and teachers, improving the capacity of the management staff to inspect, supervise and support the schools to implement the education plan towards developing quality and capacity of students.

Measures 5: Initially develop students algorithm and algorithm-like thinking, the



Olympics High School for the Gifted in Physical Education and sports belongs to Bac Ninh Sport University is a training place for talented athletes currently practicing at the school

mathematical solution using G. Polya's Problem Solving Techniques

Purpose: problem solving plays an important role in the study of Natural Science subjects, training the thinking technique and developing problem solving skills for students. Therefore, the teachers have reasonable pedagogical measures to effectively teaching problem solving will improve the quality of learning for students.

Implementation: G. Polya has written, "Finding a way to solve a problem is an invention." G. Polya's 4-Step Problem Solving Techniques has become familiar and tested in practice. This diagram consists of four steps, including Step 1: Find out the content of the problem; Step 2: Develop a problem solving program, Step 3: Implement the program developed in Step 2, Step 4: Further study on the solution. Even with the sports students, the process of solving problems can implement in four phases, including observation and acquirement, Follow the instructions; do it yourself associated with example, independently do exercises. This measure has not escaped from the traditional teaching of teaching, but partly proved its practical efficiency for textbooks, suitable with the form of teaching by lesson, especially appropriate to the level of perception

by students in High School for Sports Gifted.

CONCLUSION

The research results have proposed 5 measures for teaching Natural Science subjects, suitable with students of Olympic High School for Sports Gifted. The initial application results show that the measures have effect, gradually improving the quality of teaching Natural Science subjects, suitable with students of High Schools for Sports Gifted.

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(Received 2/11/2017, Reviewed 18/11/2017, Accepted 28/11/2017.

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