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## **FORMING OF RESEARCH ABILITIES OF GENERAL SCHOOL PUPILS IN THE PROCESS OF SMALL ACADEMY SCIENCES ACTIVITY**

The main purpose of this research is to study the structure of the lesson, to define the main stages of teacher's preparation to the lesson, to form at pupils the ability of step by step working with textbooks of deeper study of physics and to develop the experimental abilities as for work with equipment.

The first theoretical bases of creative personality were described by L. Vygotsky, D. Elkonin, G. Kostyuk, V. Romenetsom, S. Rubinstein, S. Rusovykh, V. Sukhomlinsky, K. Ushinsky. In the article there have been considered the author's methods of forming of creative abilities of senior pupils in the process of search and research in Ukraine MAN (C. Belous, N. Polihun, L. Tyhenko) and step by step writing by senior pupils the research work in publication of M. Shut and B. Sergienko, "Scientific and research work in physics in secondary and higher education". Scientific novelty of the paper is to develop the basic stages of preparation of teacher for the lesson in teaching of modern gifted young of secondary school.

The purpose of the article is to consider all types of students' activities during the lessons; to develop methodologically the stages of modern research lesson on the based of school curriculum; to teach children to work independently with a textbook in physics; to develop interesting experiments for maintaining the interest of research.

The analysis of psychological component oriented to sequence of pupils actions, methodical researches and practice of teaching leads to the conclusion of the need to form at students the stage ability to work with textbooks in physics.

Particular attention should be given to forming abilities at students in research work: to operate with equipment (example: assembly of electrical circuits, self-disciple imputation experiments); putting the problem questions during experiment; forming ability to answer the question fully, revealing its essence; solving tasks of scientific research. The giving skills and abilities are needed for writing interesting research work with the elements of experiment, the ability to independently apply knowledge to new situations; with precision, fully and clearly answer the question.

At every stage of conducting the modern lesson of teaching students demonstrated the interest in science and technology. To ensure the full development of personality and its self-improvement the youth of Ukraine requires effective using the creative potential that is realized in the Small Academy of Sciences of Ukraine, with the support of higher educational establishments.

The personality is formed at secondary school. At school a teacher must maintain the interest of pupils for study the subject, create necessary conditions and help in getting of experimental results.