

## THE METHODOLOGY OF TEACHING PHYSICS TO SCHOOL STUDENTS AND THE TASKS OF THE TEACHER IN FORMING THEIR TECHNOLOGICAL WORLD VIEW

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**Abstract:** This article shows how to increase the interest of schoolchildren in physics and how to use interesting physical methods during lessons.

**Keywords:** Creating a methodology for teaching physics, Using technological tools, Motivating students, Individual approach, Technical and useful to society, Conceptual concepts, Practices and laboratory work, Interactive textbooks and multimedia tools, Idea exercises, discussion and group work

**The main part:** It is relevant today to consider the teaching of physics in the educational process as an important factor in the formation of the scientific world. Because teaching physics means teaching the structure of the Universe, introducing its founders, and explaining the essential understanding of the physical processes occurring in nature. In addition, today the achievements of physics are almost applied to all areas of human life, and technology and technology are developing so rapidly that sometimes understanding their essence and being able to apply them in life requires not only technicians, but also ordinary people to have sufficient knowledge and potential. is demanding. That is why it is very important to take into account the demands of the society to improve the teaching of fundamental subjects in general education and higher education in accordance with the times.

***The teacher and pedagogue have the following tasks in the formation of the methodology of teaching physics to schoolchildren and their technological outlook:***

✓ Creating a methodology for teaching physics: The teacher uses appropriate methodologies and textbooks to learn and explain physics to students. These methodologies help the students to understand the conceptual material easily.

✓ Use of technological tools: The teacher, using technological tools (for example, computer textbooks, interactive textbooks, simulations and other online

resources), creates opportunities for students to learn physics in an easier and more interesting way.

- ✓ Motivating students: The teacher prepares interesting activities, applications and practices to increase students' interest in physics. This increases students' motivation and makes them love science.
- ✓ Individual approach: The teacher takes into account the individuality of each student in choosing methods suitable for his level of education and requirements. This method helps students learn science easily and effectively.
- ✓ Being technical and useful to society: The teacher teaches students technical knowledge and prepares them to be useful in society. How to apply physics in practical life and help solve problems.

Also, the teacher fosters cooperation among students, encourages creative thinking, and strives to develop students' critical thinking and discussion skills.

Having a certain worldview is a person's determination of a certain attitude towards the environment, social relations, labor activity and production process, subjects, as well as a full understanding of the social duties undertaken by a person and responsibility for fulfilling them. creates the ground for having a feeling. A person's worldview is formed as a result of the establishment of consistent, systematic, continuous and purposeful education, his active participation in the process of social relations of various directions and content, as well as self-education. In the formation of the worldview of the young generation, their thorough assimilation of the fundamentals of natural, social and humanitarian sciences taught in educational institutions plays an important role.

***The following methods are widely used in the preparation of physics teaching methodology:***

- ✓ Conceptual concepts: The teacher explains each topic in an easy and understandable way to understand the basic concepts of students' knowledge. It helps students understand the basics of physics.
- ✓ Practicals and laboratory works: Practicals and laboratory works help the students to translate theoretical knowledge into practice. This method develops students' ability to review, research, and calculate results during the learning process.
- ✓ Interactive textbooks and multimedia tools: The teacher creates a visual and interactive experience for students using interactive textbooks, multimedia tools, videos and simulations. This method allows students to learn science more easily and interestingly.

- ✓ Brainstorming: The teacher supports students in putting the fundamentals of physics into practice through brainstorming and applications. This method encourages students to study science with interest.
- ✓ Discussion and group work: The teacher encourages students to discuss and enhances cooperation among students through group work. This method develops students' thinking and discussion skills.
- ✓ Connection with the immediate environment: The teacher creates problems for the students to apply the information by connecting the physics science with the immediate environment. For example, discussing facilities, techniques, or natural hazards in the immediate vicinity
- ✓ Relation to other disciplines: In learning physics, it is important to understand the relationship with other disciplines and their role and impact in practice. For example, showing connections to mathematics, chemistry, biology, and engineering.

This combination of methods helps students learn physics easily and effectively. Using these methods, the teacher strives to strengthen students' understanding and develop scientific thinking skills.

**Conclusion:** Modern society requires effective methods for learning science, not emphasizing the scientific method, but first of all, it is necessary to teach scientific conclusions, but the constructive development of new knowledge based on empiricism and research. Such knowledge leads to the necessary clear thinking that helps to solve the problems posed by modern life.

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