

METHODS OF SCIENTIFIC KNOWLEDGE AND RESEARCH IN THE CONTENT OF SECONDARY EDUCATION ON PHYSICS

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ABSTRACT

Based on a systemic approach, the content of the course of Physics can be expressed through its components, among which there are the following ones: scientific knowledge and methods of learning; questions for self-testing; exercises; assignments; examples of problem solving aimed at forming knowledge and experience of cognitive methods application in familiar situations; creative tasks for the development of the experience of theoretical and experimental research; means of motivating by the content and by the process of learning. Each type of contents implements the relationship of scientific knowledge and methods of cognition of objects at different levels of theoretical generalizations.

Keywords: General secondary education, content, system, course of Physics, kinds of contents, scientific knowledge, methods of learning, types of learning activities, experience of creative activity, motivation by content, motivation by process.