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Analysis of the Difficulties of High School Students in Improving Problem Solving Ability in Physics Learning

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ABSTRACT

Problem solving skills are very important in the learning process and in everyday life. This study was conducted with the aim of analyzing what factors cause high school students to have difficulty in improving problem solving skills in physics learning. The method used is a Literature Study with qualitative analysis and reviewed 40 journals or articles in the period 2018-2022, journals obtained through Publish or Perish on the Scopus and Google Scholar databases which are certainly from trusted journals. The results obtained in this study are that the models and learning media used must be relevant because they are important factors that must be considered first in improving the problem solving abilities of high school students. In addition, students are only able to write what is known and asked, without knowing how to solve and students also still have difficulty in distinguishing to equations of physics formulas that will be used in solving problems. Efforts to improve problem solving are to use relevant learning models, such as those used by researchers from the literature study that we have done, namely PBL, PjBL, Inquiry and Discovery Learning. And TEM-based learning has also been shown to be effective in several studies to improve the problem-solving abilities of high school students in physics. And students also need a lot of practice in solving problem solving problems.

INTRODUCTION



Development rapid access and resources require innovation in the world of education in the learning process. Students must be trained to have appropriate skills with the passage of time (Eka et al., 2022). Learning is a need that must be met by every human being, by learning we will gain knowledge and be able to compete in this 21st century, Life in the 21st century requires many different skills that must be mastered by someone so that it is expected to help students master these skills to become successful individuals in his life (Hidayati & Sinaga, 2019). In this modern era, competition in the world of work is extraordinary, which requires us to learn and add and upgrade our knowledge. Meaningful learning is described in various terms as a type of learning to gain new knowledge or understand new information and concepts based on what students already know and personal experience that will be done (Eshchanov & Matyakubov, 2020).

Besides that education is very important, therefore we need education. Education is a humanization process that allows humans to manifest itself in life, and a good education not only prepares students for their profession and status, but also solves the problems they face in their daily life (Dewi & Primayana, 2019; Sunarti, 2022). In addition, education is a way of forming human abilities to maximize reason and logic in answering problems that arise in fighting for a good future (Hafidzah et al., 2021). Education is a something that cannot be separated from human life. Education can be used as a benchmark for the progress of the nation. Developed countries are

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