

DEVELOPMENT OF PHYSICS LEARNING DEVICE BASED ON SCIENCE TECHNOLOGY SOCIETY (STS) FOR THE ACHIEVEMENT KNOWLEDGE FOR SENIOR HIGH SCHOOL STUDENTS

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ABSTRACT

DEVELOPMENT OF PHYSICS LEARNING DEVICE BASED ON SCIENCE TECHNOLOGY SOCIETY (STS) FOR THE ACHIEVEMENT KNOWLEDGE FOR SENIOR HIGH SCHOOL STUDENTS

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ABSTRACT

This research aimed to produce a sets of learning equipment that based on Sains Technology and Society learning model to reach competence on 2013rd Curriculum. Besides, it has purpose to do know the quality of sets of learning developed, the increasing of undersatanding a concept, and .the reaching level on cooperation, creativity and high level thinking. This research is developing reasearch with 4D models that has 4 phase. There are Define, Design, Develop, and Desiminate. First phase contains analyze content of the sets of STS learning equipment.with Work and Energy concept. Second phase is to design the sets of STS learning. There are Silaby, Learning Plan, Student Work Sheet and Assessment Sheet. The third phase contains validation activity by the expert validator and practical validator, do revision, experiment, and doing revision again. The last phase is to desiminate developed sets of STS learning equipment. The result on the increasing of understanding concept is on the medium category. Meanwhile, the the reaching level on cooperation is 80% very good and 20% good. The reaching level on creativity is 38% very good, 42% good, and 20% good enough. And the reaching level on high level thinking is 17% very good, 73% good, and 10% good enough.

Keywords: learning device, Science Technology Society (STS), high school physics

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