

Real World Investigation in Science Learning Assisted Tracker Video Analysis to Enhance Investigation and Interpretation of Two-Dimensional Motion Phenomenon

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ABSTRACT

The purpose of this study is to: 1) Find the Real World Investigation Learning Model assisted by Tracker Video Analysis that has the potential to improve students' investigative and interpretive abilities of the phenomenon of two-dimensional motion, 2) Produce appropriate learning devices to support the application of Real World model based learning models Assisted Investigation Tracker Video Analysis.

The research method used is Reasech and Development (R & D) with a model offered by Borg & Gall (2003: 775). 1) Research and information collecting, 2) Planning, 3) Develop preliminary form of product, 4) Preliminary field testing, 5) Main product revision, 6) Main field testing, 7) Operational product revision, 8) Operational field testing, 9) Final product revision, 10) Dissemination and implementation. The research instruments used were the Assessment Sheet (product validation) material expert, media expert, teacher response questionnaire, student response questionnaire, Investigation Ability Observation Sheet, and Interpretation Ability Test Question.

The main results achieved are the findings of the Real-World Investigation learning model assisted by Tracker Video Analysis. The results of this study strongly support the acceleration of the achievement of the 2016-2020 UNY research master plan, especially in the field of education in the research-based learning model group, especially on the theme of student centered learning, ICT-based learning and Laboratory-based learning.

Kata Kunci: Real-World Investigation, Tracker Video Analysis, Investigation Capability, Interpretation Capabil