THE EFFECT OF SCIENTIFIC INQUIRY LEARNING MODEL ON STUDENT'S SCIENCE PROCESS SKILL IN SIMPLE HARMONIC VIBRATION MATTER FOR CLASS X SMAN 1 PERBAUNGAN

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ABSTRACT

The type of research is experimental research. The population is all of students of class X SMA N 1 Perbaungan Academic Year 2017/2018, consist of 8 classes. While there are 2 classes for the sample. One class as experiment class and another class as a control class. Experiment class using Scientific Learning Model and control class using Conventional Learning. The objective of research is (1). To know the science process skills of students taught using Scientific Inquiry learning model of Harmonic Vibration in class X SMA Negeri 1 Perbaungan. (2) To know the science process skills of students taught using conventional learning model in Harmonic Vibration topic in class X SMA Negeri 1 Perbaungan.(3) To know the effect of Using the Scientific Inquiry Learning Model to the students' science process skills compared using the conventional model in Harmonic Vibration topic in class X SMA Negeri 1 Perbaungan.

The instrument in this research is essay test. Essay test with 10 questions was valid to measure the students' science process skill. Essay test is given in pre-test and post-test. To test the hypothesis researcher using Independent Sample t-test, but previously must tested the normally and homogeneity of the data.The result of research get the level of students' learning outcomes in experiment class is good criteria with the developed are the first meeting 57,27, the second meeting is 71,15, and the third meeting 83,53.

Based on this research, the average of pre-test in experiment class is 40.1 and in control class 38.07. after treatment in every classes was done, the average of post-test in class with Scientific Inquiry Learning Model treatment is 79.14 while in class with conventional learning treatment is 72. In hypothesis test is obtained that $t_{statistic} > t_{table}$ in significant value 0.05 and df = 35, it means H_a is accepted and it means there is influence of Scientific Inquiry Learning Model on students' science process skill on Harmonic Vibration in Class X SMA N 1 Perbaungan Academic Year 2017/2018.

Key Word : Effect of Scientific Inquiry Learning Model, students' science process skill.