

Analysis of Scientific Process Skill on POE Demonstration implementation in High School

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ABSTRACT

This study was aimed at determining scientific process skill (observe, ask, collecting data, analyzing, and communicating) as a result of the demonstration with POE (Predict-Observe-Explain technique implementation, and describing scientific process skill. POE demonstration method is a learning method that make students follow inquiry steps in a shorter way, namely predict, observe, and explain Along with these aims, this study used survey research methods by administering treatment to create the conditions. Sample technique used was cluster random sampling. Samples were set to scientific treatment approach (scientific approach) with a demonstration of the technique POE (Predict-Observe-Explain). Scientific process skill was measured by using an instrument that consists of pieces of observation, self-assessment questionnaires, the assessment sheet document, and in-depth interviews. The research data is analyzed to determine the statistical significance of the differences before and after treatment. scientific process skill corresponding to the demonstration of the technique POE method is to observe, try, reason, and communicate. Based on the results of the observations made in the provision of technical demonstrations with POE, four skills can indeed be observed intended to appear in the performance of students with different intensities. The most outstanding skill is to communicate, and weakest skill is the reason.

Kata Kunci: *inquiry, POE technique, demonstrations method, scientific process skill*