

# **DEVELOPMENT OF PROCESS ORIENTED SHORT ANIMATION (POSA) AS A MEDIA TO ENHANCE OF HIGH SCHOOL STUDENTS' INQUIRY SKILL IN CHEMISTRY LEARNING**

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## **ABSTRACT**

This study aimed to determine: 1) the needs of teachers and students in the learning media inquiry skills, 2) the characteristics of process oriented short animation (POSA) as a media to enhance of high school students' inquiry skill in chemistry learning, and 3) process oriented short animation quality as a media on improving of high school students' inquiry skill in chemistry learning that has been developed.

In line with these objectives, this study is a Design Based Research with a model developed by Easterday, Lewis and Gerber (2014) which consists of six stages, namely focusing on problems, understanding problems, defining goals, conceptualizing steps for completion, developing solutions, and test the solution. Need Assessment was conducted in five districts in the Special Province of Yogyakarta (DIY) with a total of 125 students and 24 chemistry teachers. The final product assessment was carried out by 12 respondents to assess POSA with animation principle criteria

The results of this development indicate that teachers and students have a need for the media to learn inquiry skills. Process oriented short animation characteristics as a media to enhance of high school students' inquiry skill in chemistry learning are interactive media that present learning inquiry skills. The animation is based on the principle of animation criteria, namely the Principle of Contiguity, Principles of Modality, Principles of Signaling, Principles of Apprehension, Principles of Conformity, Principles of interactivity, Guiding Principles of attention, Principles of Flexibility, and Specificity. The quality of process oriented short animation as a media on improving of high school students' inquiry skill in chemistry learning that has been developed is excellent (NA = 4.15; std = 0.75) although some improvements need to be made to some of its components

Kata Kunci: *Animation, Inquiry Learning, Inquiry Skills, Process Oriented, Chemistry Learning, Skill Learning Media*