

## ABSTRACT

**Maya Jenita Simatupang, IDN 4203331001 (2024). The Development of iSpring Learning Media Based on Android Mobile using Students' Worksheet on Salt Hydrolysis Material**

This research aims to determine the feasibility of the Android-based iSpring learning media on salt hydrolysis material and determine the effectiveness of the iSpring learning media through student response questionnaires in increasing students' understanding and motivation in class XI MIPA SMA Negeri 5 Medan. This research was designed using Research and Development (R&D) method with applied 4D development model (Define, Design, Develop and Disseminate). The sampling in this study used a simple random sampling technique. The type of research used in this research is the Research and Development (R&D) research method with the 4D development model stages which consist of four stages including Define, Design, Develop, and Disseminate. The research was carried out from February 2024 to March 2024 at SMA Negeri 5 Medan. The research subjects were 30 class XI IPA 5 students as samples to determine the effectiveness of the media being developed. The results of the research on the development of iSpring learning media obtained an average level of validity equals to 4.82 (96.42 %) by material experts and 4.95 (99.07 %) by media experts with the very feasible category. And the total percentage of students' responses of iSpring interactive learning media got 91.33% which showed very good qualification. The average gain value for control class students taught using Student Worksheet media was 69% in the medium category. Meanwhile, the average gain value for experimental class students who studied using the Android-based iSpring media was 81%. These results indicate the effectiveness of using iSpring learning media based on android on student learning outcomes as seen from the increase in student learning outcomes and students are more motivated and interested in learning using iSpring learning media.

**Keywords:** Development, iSpring Suite Application, Student Worksheet, Learning Outcomes, Salt Hydrolysis