

This study aimed to analyze: (1) the characteristics of inquiry-based e-student worksheet and containing local wisdom on acid-base material; (2) the feasibility of inquiry-based e-student worksheet and contains local wisdom on acid-base material; (3) the practicality of inquiry-based e-student works

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ABSTRACT

This study aimed to analyze: (1) the characteristics of inquiry-based e-student worksheet and containing local wisdom on acid-base material; (2) the feasibility of inquiry-based e-student worksheet and contains local wisdom on acid-base material; (3) the practicality of inquiry-based e-student worksheet and containing local wisdom on acid-base material; (4) the legibility of the e-student worksheet is based on inquiry and contains local wisdom on acid-base material; and (5) the effectiveness of e-student worksheet based on inquiry and containing local wisdom on acid-base materials on students' chemical literacy and scientific attitudes

This research is included in Research and Development (R&D) which refers to the 4D development model by Thiagarajan with the Define, Design, Develop, and Disseminate stages. The product effectiveness test at the dissemination stage used a quasi-experimental design with a post-test-only design which was conducted in class XI MIPA at SMAN 1 Kasihan Bantul. There are two classes as research subjects, namely the experimental class that uses inquiry-based e-student worksheet and contains local wisdom and the control class that does not use e-student worksheet media. The instruments used in this study consisted of validation sheets, product assessment sheets, product readability sheets, scientific attitude questionnaires, and chemical literacy ability tests. The data analysis technique used is descriptive analysis, calculating the average score that is categorized according to ideal assessment criteria, the Manova test to see differences in chemical literacy and scientific attitudes of students, and the effect size test to see the percentage of effective contribution to the implementation of the e-student worksheet.

The results of this study indicated that: (1) e-student worksheet developed with the help of a website that consists of five learning activities that refer to guided-inquiry syntax and contain DIY local wisdom related to acid and base material; (2) Inquiry-based e-student worksheet and contain local wisdom is suitable for use in acid-base learning; (3) e-student worksheet based on inquiry and containing local wisdom is practically used in learning, (4) e-student worksheet based on inquiry and containing local wisdom is very good in terms of readability, and (5) There are significant differences in chemical literacy and students' scientific attitudes between students who take acid-base learning using inquiry-based e-student worksheet and contain local wisdom and students who take lessons without using e-student worksheet. The effective contribution of the application of inquiry-based e-student worksheet and containing local wisdom to the chemical literacy abilities and scientific attitudes of students in acid-base material is 36.5%.

Kata Kunci: *acid-base, chemical literacy, e-student worksheet, inquiry, local wisdom, scientific attitude*