

Development of Scientific Literacy for Junior High School Students Through Science Online Learning During The Covid-19 Pandemic.

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ABSTRACT

. This study aims to develop science online learning during the Covid-19 pandemic to improve scientific literacy, analyze the feasibility and effectiveness of the products developed. The research design used to develop the design is 4D (Define, Design, Develop, Disseminate). The data collection techniques used in this study include the assessment of online learning science learning design products, tests to measure scientific literacy, online learning science learning observations and learning response questionnaires. The data were analyzed descriptively to determine the feasibility of the product and the effectiveness of online learning science learning using N-gain. The results showed that the level of feasibility of the product developed on the criteria was very feasible in terms of the assessment of experts and science teachers. The average expert assessment is 4.81 and the average assessment from science teachers is 4.66. Based on the analysis of the Sample Paired T Test using the Wilcoxon test, it is known that the Asymp.Sig value is 0.000, which means the value is smaller than the significance level (0.05), it can be concluded that there is a significant difference in scientific literacy before and after being given the product development results. Science online learning products can increase scientific literacy in the medium category with the result of N gain <g> of 0.41.

Kata Kunci: *scientific literacy, science online learning*