

ABSTRACT

Catur Kurniawan, ID Number 4172131011(2021). The Development of Acid-Base Titration Handout Based on Android Integrated Discovery Learning Model and HOTS Problems

This research aims to determine: (1) Analysis results regarding to the advantages and disadvantages of acid-base titration handout in internet, (2) Feasibility level of the Acid-Base Titration Handout Based on Android Integrated Discovery Learning Model and HOTS Problems which has been developed, (3) Students' and teachers' response to the Acid-Base Titration Handout Based on Android Integrated Discovery Learning Model and HOTS Problems which has been developed. The type of research is (R&D) by implementing 4-D development model by Thiagarajan. The stages are define, design, develop, and disseminate. The Acid-Base Titration Handout Based on Android Integrated Discovery Learning Model and HOTS Problems which has been developed was validated by 5 experts and obtained score 94.72 ; 96.14 ; 99.10 ; 95.00 and 98.11% respectively which is categorized as very feasible. Students's and teachers's responses toward Acid-Base Titration Handout Based on Android Integrated Discovery Learning Model and HOTS Problems are categorized as very good by percentage 91.27 and 100%. It shows that The Acid-Base Titration Handout Based on Android Integrated Discovery Learning Model and HOTS Problems is appropriate to implement for teaching and learning process.

Keywords: R&D, Acid-base titration, Handout, Discovery Learning, HOTS problems