

**THE DEVELOPMENT OF BIOLOGY COURSEBOOK FOR X GRADER
OF HIGH SCHOOL ON ANIMAL CLASSIFICATION TOPIC
BY USING SCIENTIFIC APPROACH**

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ABSTRACT

This research aims to produce a coursebook of Animal Classification for X grader of High School which developed get the good scores in accordance to the Scientific Approach according to the experts (lecturer), practitioner (teacher), and students. This research was include to the Research and Development, using the Instructional Design with 4D (*Difine, Design, Develop, Disseminate*) Model. The research was conducted at Educational Biology Laboratory, Medan State University as the development of cooursebook and SMAN 5 as the place where the assessment of coursebook by teacher and students. The instrument which used in this research was the questioner with three elements, content, layout, and language. The assessment of the coursebook using the design of quantitative and qualitative descriptive analysis. The result showed that the coursebook has been developed well. According to two materials experts and one teacher, the quality of the coursebook has a very good sufficiency with 89,06%, 85,93%. Furthermore, the students was gave a positive response to the coursebook with the percentage of 92,75%. According to the assessment result, so the coursebook got a good score from lecturer, teacher, and students and worthy as the supporting learning tools for teacher is the class.

Key Word: Animal Classification, Coursebook, Research and Development, 4D Model