

ABSTRAK

Amrullah M. The development of inquiry-oriented Biological Learning SMP/MTs materials is equipped with Mind Map. Thesis. Postgraduate Program of State University of Medan, 2015.

Abstract. This research aims to: (1) develop and produce inquiry-oriented biology SMP/MTs teaching materials equipped with mind maps in order to become supporters of learning, (2) knowing teacher and student responses to instructional materials developed, (3) knowing the results of expert validation material and design experts for biology teaching materials that have been developed. This type of research is development research with procedural models through 4-D models (four-D models), which are modified as needed. This model consists of four stages, namely: define, design, develop, and spread (desseminate). validity test (didactic, construction, technical) and practicality of teaching materials using a Likert scale. The results showed: (1) Validation of teaching materials is very valid with an average value of 3.54. (2) the results of didactic 3.5 validation 3.5 with a very valid category. (3) the results of the validation of the construction aspects of teaching materials obtained values averaging 3.6 with a very valid category. (4) the results of the technical aspects validation 3.5 with a very valid category. (5) the practicality of learning materials according to the teacher with an average level of practicality of 3.23 which is in the practical category. (6) The practicality of learning materials according to students shows that learning materials are stated to be very practical with an average practicality level of 3.54, so it can be concluded that inquiry-based SMP / MTs biology teaching materials equipped with mind maps are appropriate to be used and developed as supporting biological learning in school.

Keywords: Learning Material Development, 4D Development, Inquiry, Mind Map.

ABSTRACT

Amrullah M. Pengembangan Bahan Pembelajaran Biologi SMP/MTs Berorientasi inkuiri dilengkapi *Mind Map*. Tesis. Program Pascasarjana Universitas Negeri Medan, 2015.

Penelitian ini bertujuan untuk: (1) mengembangkan dan menghasilkan bahan ajar biologi SMP/MTs berorientasi inkuiri dilengkapi *mind map* agar dapat menjadi pendukung dalam pembelajaran, (2) mengetahui tanggapan guru dan siswa terhadap bahan ajar yang dikembangkan, (3) mengetahui hasil validasi ahli materi dan ahli desain bahan ajar biologi yang telah dikembangkan. Jenis penelitian ini adalah penelitian pengembangan dengan model prosedural melalui model 4-D (*four-D models*), yang dimodifikasi sesuai kebutuhan. Model ini terdiri dari empat tahap, yaitu: pendefinisian (*define*), perancangan (*design*), pengembangan (*develop*), dan penyebaran (*desseminate*). uji validitas (didaktik, konstruksi, teknis) dan praktikalitas bahan ajar menggunakan skala *Likert*. Hasil penelitian menunjukkan: (1) Validasi bahan ajar sangat valid dengan rata-rata nilai sebesar 3,54, (2) hasil validasi aspek didaktik 3,5 dengan kategori sangat valid., (3) hasil validasi aspek konstruksi bahan ajar diperoleh nilai rata-rata 3,6 dengan kategori sangat valid., (4) hasil validasi aspek teknis 3,5 dengan kategori sangat valid., (5) Praktikalitas bahan pembelajaran menurut guru dengan rata-rata tingkat kepraktisannya 3,23 yaitu berada pada kategori praktis., (6) Hasil uji praktikalitas bahan pembelajaran menurut siswa menunjukkan bahwa bahan pembelajaran dinyatakan sangat praktis dengan rata-rata tingkat kepraktisannya 3,54, sehingga dapat disimpulkan bahan pembelajaran biologi SMP/MTs berbasis inkuiri dilengkapi *mind map* layak digunakan dan dikembangkan sebagai penunjang pembelajaran biologi di sekolah.

Kata Kunci: Pengembangan Bahan Pembelajaran, Model Pengembangan 4D, Inkuiri, *Mind Map*.