

**PENGEMBANGAN LEMBAR KEGIATAN PESERTA DIDIK (LKPD) BIOLOGI
BERBASIS INKUIRI TERBIMBING PADA MATERI STRUKTUR DAN
FUNGSI JARINGAN TUMBUHAN DI KELAS XI MIA
SMA NEGERI 12 MEDAN T.P 2018/2019**

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Abstrak

Penelitian ini bertujuan untuk mengetahui tingkat kelayakan LKPD biologi berbasis inkuiri terbimbing pada materi struktur dan fungsi jaringan tumbuhan. Jenis penelitian yang digunakan adalah penelitian pengembangan (*R&D*) dengan model pengembangan produk 4-D. Model ini meliputi 4 tahap, yaitu: (1) *define*; (2) *design*; (3) *develop*; (4) *disseminate*. Penelitian ini dibatasi hingga tahap pengembangan (*develop*), yaitu hanya sampai tahap uji coba produk pada kelompok lapangan terbatas. Penelitian ini dimulai sejak bulan Februari-September 2018 di SMA Negeri 12 Medan. Subjek dalam penelitian ini siswa kelas XI MIA 2, XI MIA 3, dan XI MIA 4, objek penelitian berupa LKPD berbasis inkuiri terbimbing yang telah dikembangkan. LKPD yang dikembangkan divalidasi oleh ahli materi, ahli pembelajaran, ahli desain grafis, guru, dan uji lapangan. Uji coba lapangan dilakukan sebanyak tiga kali, yaitu uji coba perorangan sebanyak tiga orang siswa, uji coba kelompok kecil sebanyak sembilan orang siswa, dan uji coba kelompok lapangan terbatas sebanyak 36 orang siswa. Data tentang kualitas produk pengembangan ini dikumpulkan dengan angket. Data dianalisis dengan teknik deskriptif kuantitatif dan kualitatif. Hasil penelitian menunjukkan bahwa rata-rata persentase penilaian oleh ahli materi sebesar 97,9% dengan kriteria “sangat layak”; ahli pembelajaran sebesar 94,79% dengan kriteria “sangat layak”; ahli desain grafis sebesar 93,52% dengan kriteria “sangat layak”; penilaian guru biologi sebesar 98,45% dengan kriteria “sangat layak”; uji coba perorangan sebesar 78,72% dengan kriteria “Baik”; uji coba kelompok kecil sebesar 83,17% dengan kriteria “Baik”; uji coba kelompok terbatas sebesar 90,39% dengan kriteria “Baik”. Dapat disimpulkan bahwa produk penelitian pengembangan LKPD Biologi ini layak digunakan sebagai bahan ajar siswa kelas XI MIA.

Kata Kunci: Pengembangan, LKPD, Inkuiri Terbimbing, Struktur dan Fungsi Jaringan Tumbuhan.

**THE DEVELOPMENT OF STUDENT ACTIVITY SHEET (LKPD) BIOLOGY-
BASED GUIDE INQUIRY ON THE STRUCTURE AND FUNCTION OF
PLANT TISSUE IN CLASS XI MIA SMA NEGERI 12 MEDAN**

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Abstract

This research aims to know the level of the feasibility of the student activity sheet biology-based guide inquiry on the structure and function of plant tissue. The type of this research is Research Development (R&D) with 4-D product development model. This model includes 4 stages, (1) define; (2) design ; (3) develop; (4) disseminate. This research is limited to develop stage, to the step of testing the product on a limited group. This research is began since February to September 2018 in SMA Negeri 12 Medan. The subject of this research is student of XI MIA 2, XI MIA 3, and XI MIA 4 class, the object of this research is student activity sheet (LKPD) based guide inquiry that have been developed. The student activity sheet that been developed is validated by the material expert, educational expert, graphic design expert, two teachers, and field test. The field trials are performed as many as three times, that is individual trial as many as three students, small group trials as many as nine students, and limited field group trial as many as 36 students. The data of the quality of this development product is collected by questionnaire. The data is analyzed by the descriptive technique of quantity and quality. The result of this research shows that the percentage mean of assessment by material expert is 97,9% with the 'very proper' category; by educational expert is 94,79% with 'very proper' category; by graphic design expert is 'very proper' category; by the biology teachers is 98,45% with very proper' category; by the individual trials is 78,72% with 'Good' category; by smal group trial is 83,17% with 'Good' category; and by limited group trial is 90,39% with 'Good' category. This research can be concluded that the development resarch product of student activity sheet (LKPD) of Biology is proper to use as the teaching material for student class XI MIA.

Key Word: Development, Student Activity Sheet, Guide Inquiry, Structure and Function of Plant Tissue.