

TESIS

**PENGEMBANGAN E-STUDENT WORKSHEETS (E-SW) BERBASIS
LITERASI SAINS UNTUK MENINGKATKAN KEMAMPUAN BERPIKIR
KRITIS PESERTA DIDIK KELAS IV MATERI GAYA MAGNET**

Disampaikan untuk memenuhi persyaratan memperoleh gelar
Magister Pendidikan

Oleh:

**SITI MARIA
2309089011**



**PROGRAM STUDI PENDIDIKAN DASAR
SEKOLAH PASCASARJANA
UNIVERSITAS MUHAMMADIYAH PROF. DR. HAMKA
JAKARTA
2025**

LEMBAR PENGESAHAN

PENGEMBANGAN E-STUDENT WORKSHEETS (E-SW) BERBASIS LITERASI SAINS UNTUK MENINGKATKAN KEMAMPUAN BERPIKIR KRITIS PESERTA DIDIK KELAS IV MATERI GAYA MAGNET

TESIS

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Universitas Muhammadiyah Prof. DR. HAMKA Tanggal 21 Mei 2025

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24/6 25

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Jakarta, 24-06-2025

Mengesahkan

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ABSTRAK

Siti Maria, Pengembangan E-Student Worksheets (E-SW) Berbasis Literasi Sains Untuk Meningkatkan Kemampuan Berpikir Kritis Peserta Didik Kelas IV Materi Gaya Magnet. Tesis. Program Study Pendidikan Dasar, Sekolah Pascasarjana Universitas Muhammadiyah Prof. DR. HAMKA.

Kata Kunci: E-Student Worksheets, Literasi Sains, Berpikir Kritis, Gaya Magnet, R&D.

Penelitian ini bertujuan untuk menghasilkan *e-student worksheets* berbasis literasi sains untuk meningkatkan kemampuan berpikir kritis peserta didik kelas IV SD materi gaya magnet. Penelitian ini merupakan jenis penelitian pengembangan (*Research and Development*) model pengembangan ADDIE dengan lima langkah yang meliputi analisis, desain, pengembangan, implementasi, dan evaluasi. Teknik pengumpulan data yang digunakan adalah observasi, kuisioner, dan tes. Uji validitas produk dilakukan oleh ahli media, ahli materi, dan ahli bahasa. Sedangkan uji kepraktisan produk dilakukan melalui respon peserta didik dan guru. Kemudian uji efektivitas produk dilakukan melalui *pre-test* dan *post-test*.

Hasil penelitian ini menunjukkan bahwa *e-student worksheets* berbasis literasi sains sangat layak digunakan bagi peserta didik Kelas IV SD. Hal ini berdasarkan penilaian oleh ahli media 92,94%, ahli materi sebesar 93,12%, ahli bahasa 94%, *one to one* 93,86%, *small group* 95,33%, *field test* 96,31%, dan guru SD memperoleh presentase sebesar 94,66%, apabila dideskripsikan termasuk kategori sangat baik. Implikasi dari penerapan *e-student worksheets* berbasis literasi sains dapat menciptakan pembelajaran yang aktif, mandiri dan bermakna bagi peserta didik dan bagi guru dapat menjadi media alternatif sebagai alat bantu dalam kegiatan pembelajaran kedepannya.

ABSTRACT

Siti Maria, Development of E-Student Worksheets (E-SW) Based on Science Literacy to Improve Critical Thinking Skills of Grade IV Students on Magnetic Force Material. Thesis. Elementary Education Study Program, Postgraduate School of Universitas Muhammadiyah Prof. DR. HAMKA.

Keywords: E-Student Worksheets, Science Literacy, Critical Thinking, magnetic force, R&D.

This study aims to produce e-student worksheets based on scientific literacy to improve critical thinking skills of grade IV elementary school students on magnetic force material. This study is a type of development research (Research and Development) ADDIE development model with five steps including analysis, design, development, implementation, and evaluation. Data collection techniques used here observation, questionnaires, and tests. Product validity testing was carried out by media experts, material experts, and language experts. While the product practicality test was carried out through student and teacher responses. Then the product effectiveness test was carried out through pre-test and post-test.

The results of this study indicate that e-student worksheets based on scientific literacy are very suitable for use by grade IV elementary school students. This is proven based on assessments by media experts 92.94%, material experts 93.12%, language experts 94%, one to one 93.86%, small group 95.33%, field test 96.31%, and elementary school teachers obtained a percentage of 94.66%, if described, it is included in the very good category. The implications of implementing e-student worksheets based on scientific literacy can create active, independent and meaningful learning for students and for teachers it can be an alternative media as a tool in future learning activities.

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BERITA ACARA SIDANG TESIS

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Berdasarkan Surat Keputusan Rektor Universitas Muhammadiyah Prof. DR. HAMKA No: /R/KM/2025 tanggal 19 Mei 2025 dinyatakan bahwa pada hari ini Rabu, 21 Mei 2025. telah dilaksanakan Sidang Tesis, kepada:

Nama : **SITI MARIA**
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Program Studi : **Pendidikan Dasar**
Judul Tesis : **PENGEMBANGAN E-STUDENT WORKSHEETS (E-SW) BERBASIS LITERASI SAINS UNTUK MENINGKATKAN KEMAMPUAN BERPIKIR KRITIS PESERTA DIDIK KELAS IV MATERI GAYA MAGNET**

Dihadapan Tim Penguji Sidang Tesis, yang terdiri dari:

NO	NAMA dan TANDA TANGAN	NILAI	NO	NAMA dan TANDA TANGAN	NILAI
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2.	 Dr. Hj. Yessy Yanita Sari, M.Pd.	85,25	2.	 Prof. Dr. H. Abd Rahman A. Ghani, M.Pd.	81
JUMLAH →		173,			
NILAI AKHIR →		84			

Dinyatakan **LULUS/TIDAK LULUS** *)

Demikian Berita Acara ini dibuat dengan sebenar-benarnya.

Jakarta, 21 Mei 2025

Mengetahui
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Sekretaris,

Prof. Dr. H. Ade Hikmat, M.Pd.

Dr. Hj. Yessy Yanita Sari, M.Pd.