

**PENGGUNAAN GABUNGAN INKUIRI LANGSUNG DENGAN WEB-BASED
INQUIRY UNTUK MENINGKATKAN KEMAMPUAN INKUIRI DAN
LINGKUNGAN BELAJAR SISWA SMP**

DISERTASI

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Penggunaan Gabungan Inkuiiri Langsung dengan Web-based Inquiry Untuk Meningkatkan Kemampuan Inkuiiri dan Lingkungan Belajar Siswa SMP

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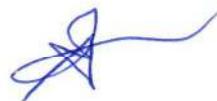
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ABSTRAK

Perkembangan teknologi berguna dalam pembelajaran *online* untuk meminimalisir kepasifan siswa. Selain itu tujuan kurikulum SMP menekankan pada pemahaman IPA dan keterampilan proses agar siswa mampu menerapkannya dalam kehidupan. Penggunaan gabungan inkuiiri langsung dan web-based inquiry memfasilitasi keterlibatan siswa untuk melakukan kegiatan inkuiiri berdasarkan permasalahan ilmiah. Keterlibatan tersebut membentuk lingkungan belajar yang dipandang sebagai faktor determinan bagaimana seseorang belajar. Penelitian ini bertujuan untuk mengetahui peningkatan dari kemampuan inkuiiri dan lingkungan belajar siswa SMP melalui penggunaan gabungan inkuiiri langsung dengan web-based inquiry. Desain penelitian adalah *mixed methods* tipe *embedded experimental design*, instrumen yang digunakan meliputi soal inkuiiri, lembar kegiatan inkuiiri siswa dan kuesioner lingkungan belajar, dengan populasi penelitian berjumlah 106 siswa kelas VIII SMP di kota Bandar Lampung. Hasil penelitian menunjukkan bahwa penggunaan gabungan inkuiiri langsung dengan web-based inquiry mengalami peningkatan pada kemampuan inkuiiri sebesar 6,47 pada kelas eksperimen sementara kelas kontrol memiliki peningkatan sebesar 4,49. Keterbatasan hasil tersebut karena siswa belum terbiasa berinkuiiri, terbatasnya aktivitas fisik akibat pandemi, dan sulitnya guru mengendalikan kelas secara daring. Selain itu, kendala teknis dan kurangnya persiapan mempengaruhi kondisi lingkungan belajar. Hasil analisis data dari untuk lingkungan belajar kelas eksperimen dan kelas kontrol berada dalam rentang skala 1, artinya lingkungan belajar dikedua kelas mengalami ketidaksesuaian dengan kondisi belajar yang seharusnya siswa alami. Hal ini terlihat dari belum tercapainya interaksi belajar yang diharapkan, sehingga diperlukan kedasaran agar kondisi belajar siswa dapat mendukung pola pengaturan belajar siswa.

Kata-kata kunci: gabungan inkuiiri langsung dan web-based inquiry, kemampuan inkuiiri, lingkungan belajar.

THE COMBINED USE OF DIRECT INQUIRY WITH WEB-BASED INQUIRY TO IMPROVE INQUIRY ABILITY AND THE LEARNING ENVIRONMENT OF JUNIOR HIGH SCHOOL STUDENTS

ABSTRACT

Technological developments are helpful in online learning to minimize student passivity. In addition, the objectives of the junior high school curriculum emphasize understanding science and process skills so that students can apply them in life. The combined use of direct and web-based inquiry facilitates students' involvement in inquiry activities based on scientific problems. This involvement forms a learning environment which is seen as a determining factor in how a person learns. This study aims to determine the increase in the inquiry abilities and learning environment of junior high school students through a combination of direct and web-based inquiry. The research design was the type of a mixed method embedded experimental. The instruments used included inquiry questions, student inquiry activity sheets, and learning environment questionnaires, with a study population of 106 grade VIII junior high school students in Bandar Lampung city. The results showed that the combined use of direct and web-based inquiry increased inquiry ability by 6.47 in the experimental class, while the control class had an increase of 4.49. The limited results are due to students needing to be used to inquiry, little physical activity due to the pandemic, and the difficulty of teachers controlling classes online. In addition, technical constraints and lack of preparation affect the condition of the learning environment. The results of data analysis for the learning environment of the experimental class and control class are in the scale range of 1, meaning that the learning environment in both types experiences a discrepancy with the learning conditions that students should experience. This can be seen from the lack of achievement of the expected learning interactions so that a basis is needed so that student learning conditions can support student learning patterns.

Keywords: *a combination of direct inquiry and web-based inquiry, inquiry abilities, learning environment.*

DAFTAR ISI

LEMBAR PENGESAHAN	ii
PERNYATAAN KEASLIAN DISERTASI	iii
ABSTRAK	iv
KATA PENGANTAR	vi
UCAPAN TERIMA KASIH	vii
DAFTAR ISI	ix
DAFTAR TABEL	xii
DAFTAR GAMBAR	xiv
DAFTAR LAMPIRAN	xiv
BAB I PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah	9
1.3 Batasan Penelitian	9
1.4 Tujuan Penelitian	11
1.5 Manfaat Penelitian	11
1.6 Definisi Operasional	11
1.7 Struktur Organisasi Penulisan Disertasi	13
BAB II TINJAUAN PUSTAKA	15
2.1 Web-based Inquiry	15
2.1.1 Pemanfaatan Pembelajaran berbasis Web	20
2.2 Kemampuan Inkuiri	25
2.2.1 Merumuskan Masalah	29
2.2.2 Membuat Hipotesis	31
2.2.3 Merancang Percobaan	35
2.2.4 Melakukan Percobaan	37
2.2.5 Melakukan Pengumpulan Data	39
2.2.6 Menganalisa Data	42

2.2.7 Mengkomunikasikan Hasil	44
2.3 Lingkungan Belajar	46
2.3.1 Pemikiran Kritis dalam Strategi Belajar	48
2.3.2 Keterlibatan Siswa dalam Bekerjasama	50
2.3.3 Manajemen Lingkungan Belajar	53
2.3.4 Evaluasi Penetapan tujuan dalam Komunitas Belajar	56
2.3.5 Pemecahan Masalah Kognitif.....	59
2.3.6 Relevansi Siswa dalam kegiatan Belajar	63
2.4 Kerangka Berpikir	67
BAB III METODE PENELITIAN.....	74
3.1 Desain Penelitian	74
3.2 Populasi dan Sampel.....	76
3.3 Prosedur Penelitian	76
3.3.1 Tahap Persiapan.....	76
3.3.2 Tahap Pelaksanaan Intervensi.....	92
3.3.3 Tahap Akhir.....	104
3.4 Teknik Analisis Data	104
BAB IV HASIL DAN PEMBAHASAN	107
4.1 Penggunaan Gabungan Inkuiri Langsung dengan Web-based Inquiry terhadap Kemampuan Inkuiri Siswa	107
4.1.1 Merumuskan masalah	115
4.1.2 Membuat hipotesis.....	132
4.1.3 Merancang percobaan	141
4.1.4 Mengumpulkan data	150
4.1.5 Menganalisa data	166
4.1.2 Mengkomunikasikan hasil.....	182
4.2 Penggunaan Gabungan Inkuiri Langsung dengan Web-based Inquiry terhadap Lingkungan Belajar Siswa	192
4.2.1 Pemikiran Kritis dalam Strategi Belajar	197
4.2.2 Keterlibatan Siswa dalam Bekerjasama	202
4.2.3 Manajemen Lingkungan Belajar Siswa.....	210

4.2.4 Evaluasi Penetapan Tujuan dalam Komunitas Belajar.....	218
4.2.5 Pemecahan Masalah Kognitif.....	225
4.2.6 Relevansi Siswa dalam Kegiatan Belajar	234
BAB V SIMPULAN, IMPLIKASI DAN REKOMENDASI	246
5.1 Simpulan.....	246
5.2 Implikasi	247
5.1 Rekomendasi.....	248
DAFTAR PUSTAKA	249
RIWAYAT HIDUP.....	429

DAFTAR TABEL

Tabel 3.1 Jumlah subjek penelitian.....	76
Tabel 3.2 Kisi-kisi pengembangan rubrik penilaian LKPD.....	78
Tabel 3.3 Pengembangan soal berdasarkan indikator kemampuan inkuiiri.....	80
Tabel 3.4 Contoh soal yang mewakili instrumen kemampuan inkuiiri.....	81
Tabel 3.5 Uji coba soal instrumen kemampuan inkuiiri	82
Tabel 3.6 Interpretation of level agreement	84
Tabel 3.7 Pemetaan indikator lingkungan belajar dari 15 jurnal	85
Tabel 3.8 Pemetaan indikator utama dan sub-indikator lingkungan belajar	86
Tabel 3.9 Indeks reliabilitas instrumen lingkungan belajar	88
Tabel 3.10 Indeks konsistensi internal butir kuesioner lingkungan belajar	88
Tabel 3.11 Uji keterbacaan dari 11 item lingkungan belajar	89
Tabel 3.12 Uji ulang instrumen lingkungan belajar 11 Item.....	90
Tabel 3.13 Kisi-kisi pengembangan angket persepsi siswa mengenai pembelajaran IPA	91
Tabel 3.14 Langkah kegiatan pembelajaran kelas eksperimen dan kelas kontrol secara daring.....	93
Tabel 4.1 Rekapitulasi pretest dan posttest kemampuan inkuiiri siswa kelas eksperimen dan kelas kontrol.....	108
Tabel 4.2 Rekapitulasi pretest dan posttest kompetensi merumuskan masalah.....	115
Tabel 4.3 Jumlah kesesuaian jawaban pertanyaan penelitian siswa	117
Tabel 4.4 Nilai rata-rata pretest dan posttest kemampuan merumuskan masalah	123
Tabel 4.5 Jumlah rata-rata skala perolehan pretest dan posttest dalam membuat pertanyaan penelitian.....	127
Tabel 4.6 Nilai rata-rata pretest dan posttest kemampuan membuat hipotesis	132
Tabel 4.7 Nilai rata-rata pretest dan posttest kemampuan merancang percobaan	142
Tabel 4.8 Nilai rata-rata pretest dan posttest kemampuan mengumpulkan data.....	151
Tabel 4.9 Langkah percobaan tema debit tekanan air.....	158

Tabel 4.10 Langkah Percobaan Tema Transportasi Jaringan Tumbuhan	161
Tabel 4.11 Langkah Percobaan Tema Prinsip Hukum Archimedes	165
Tabel 4.12 Nilai rata-rata pretest dan posttest kemampuan menganalisa data.....	167
Tabel 4.13 Contoh analisa data dalam tabel tema debit tekanan air	174
Tabel 4.14 Contoh tabel hasil data kelas eksperimen tema transportasi tumbuhan..	178
Tabel 4.15 Contoh tabel hasil analisis data prinsip hukum Archimedes	182
Tabel 4.16 Nilai rata-rata pretest dan posttest kemampuan mengkomunikasikan hasil	183
Tabel 4.17 Rekapitulasi perbedaan kondisi awal dan akhir lingkungan belajar siswa kelas eksperimen dan kelas kontrol.....	192
Tabel 4.18 Hasil skor rata-rata kondisi awal dan akhir indikator lingkungan belajar pada kelas eksperimen dan kontrol	196
Tabel 4.19 Hasil uji korelasi hubungan kemampuan inkuiiri dengan lingkungan belajar siswa.....	244

DAFTAR GAMBAR

Gambar 2.1 Tampilan web inquiry environment	18
Gambar 2.2 Tahapan inkuiri dalam web inquiry environment	19
Gambar 2.3 Teori kognitif pembelajaran melalui multimedia.....	21
Gambar 2.4 Kerangka berpikir.....	69
Gambar 3.1 Desain penelitian mixed methods tipe embedded experimental model ..	75
Gambar 3.2 Contoh pernyataan pada instrumen lingkungan belajar	87
Gambar 4.1 Hasil pretest, posttest, dan gain kemampuan inkuiri siswa.....	109
Gambar 4.2 Hasil pretest, posttest, dan gain kemampuan merumuskan masalah.....	125
Gambar 4.3 Hasil pretest, posttest, dan gain kemampuan membuat hipotesis	134
Gambar 4.4 Kemampuan membuat hipotesis pada kelas eksperimen dan kontrol...	135
Gambar 4.5 Hasil pretest, posttest, dan gain kemampuan merancang percobaan	143
Gambar 4.6 Kemampuan merancang percobaan pada kelas eksperimen dan kontrol	144
Gambar 4.7 Rancangan sketsa gambar perubahan aliran air siswa kelas eksperimen bagian pertama (a) dan bagian kedua (b).....	145
Gambar 4.8 Rancangan sketsa gambar transportasi tumbuhan siswa kelas eksperimen (a) dan kelas kontrol (b).....	147
Gambar 4.9 Rancangan sketsa gambar kapal laut siswa kelas eksperimen (a) dan kelas kontrol (b)	149
Gambar 4.10 Hasil pretest, posttest, dan gain kemampuan mengumpulkan data.....	152
Gambar 4.11 Kemampuan mengumpulkan data pada kelas eksperimen dan kontrol	154
Gambar 4.12 Contoh tabel untuk tema debit tekanan air.....	156
Gambar 4.13 Contoh tabel untuk tema transportasi jaringan tumbuhan.....	160
Gambar 4.14 Contoh tabel untuk tema prinsip hukum Archimedes	163
Gambar 4.15 Hasil pretest, posttest, dan gain kemampuan menganalisa data.....	168
Gambar 4.16 Kemampuan menganalisa data pada kelas eksperimen dan kontrol ...	170

Gambar 4.17 Virtual lab tema debit tekanan air	172
Gambar 4.18 Contoh grafik tema pertama debit tekanan air	173
Gambar 4.19 Virtual lab tema transportasi jaringan tumbuhan	176
Gambar 4.20 Contoh grafik tema kedua transportasi jaringan tumbuhan.....	177
Gambar 4.21 Virtual lab tema prinsip hukum Archimedes	180
Gambar 4.22 Contoh grafik hasil tema ketiga prinsip hukum Archimedes	181
Gambar 4.23 Hasil pretest, posttest, dan gain kemampuan mengkomunikasikan hasil	184
Gambar 4.24 Kemampuan mengkomunikasikan hasil pada kelas eksperimen dan kelas kontrol	185
Gambar 4.25 Skor rata-rata kondisi awal dan akhir indikator pemikiran kritis dalam strategi belajar kelas eksperimen dan kontrol	198
Gambar 4.26 Skor rata-rata kondisi awal dan akhir indikator keterlibatan siswa dalam bekerjasama kelas eksperimen dan kontrol.....	203
Gambar 4.27 Skor rata-rata kondisi awal dan akhir indikator manajemen lingkungan belajar siswa kelas eksperimen dan kontrol.....	211
Gambar 4.28 Skor rata-rata kondisi awal dan akhir indikator evaluasi penetapan tujuan dalam komunitas belajar kelas eksperimen dan kontrol	220
Gambar 4.29 Skor rata-rata kondisi awal dan akhir indikator pemecahan masalah kognitif kelas eksperimen dan kontrol.....	228
Gambar 4.30 Skor rata-rata kondisi awal dan akhir indikator relevansi siswa dalam kegiatan belajar kelas eksperimen dan kontrol	236

DAFTAR LAMPIRAN

Lampiran 1. Panduan siswa menjalankan web inkuiiri.....	277
Lampiran 2. Panduan guru untuk menjalankan web.....	295
Lampiran 3. Hasil kegiatan inkuiiri siswa.....	306
Lampiran 4. Rubrik penilaian kegiatan inkuiiri siswa	309
Lampiran 5a. Kegiatan inkuiiri siswa eksperimen I.....	318
Lampiran 5b. Kegiatan inkuiiri siswa eksperimen II	321
Lampiran 5c. Kegiatan inkuiiri siswa eksperimen III	324
Lampiran 6a. Kegiatan inkuiiri siswa kontrol I.....	327
Lampiran 6b. Kegiatan inkuiiri siswa kontrol II	330
Lampiran 6c. Kegiatan inkuiiri siswa kontrol III	333
Lampiran 7. Observasi siswa dalam kegiatan inkuiiri	336
Lampiran 8. Kisi-kisi tes inkuiiri siswa	338
Lampiran 9. Rubrik tes inkuiiri siswa	346
Lampiran 10. Hasil pengujian rater inkuiiri	353
Lampiran 11. Kisi-kisi instrumen lingkungan belajar.....	356
Lampiran 12. Pengujian lingkungan belajar pertama	361
Lampiran 13. Pengujian lingkungan belajar kedua.....	366
Lampiran 14. Instrumen lingkungan belajar siswa	368
Lampiran 15. Angket persepsi siswa pembelajaran IPA	372
Lampiran 16. Hasil pengujian angket IPA siswa	373
Lampiran 17. Wawancara guru terhadap pembelajaran IPA	380
Lampiran 18. RPP siswa kelas eksperimen.....	383
Lampiran 19. RPP siswa kelas kontrol	392
Lampiran 20. Hasil data kemampuan inkuiiri siswa	400
Lampiran 21. Hasil data lingkungan belajar siswa	406
Lampiran 22. SPSS kemampuan inkuiiri pretest dan posttest	413
Lampiran 23. SPSS inkuiiri merumuskan masalah	415
Lampiran 24. SPSS inkuiiri membuat hipotesis.....	417
Lampiran 25. SPSS inkuiiri merancang percobaan.....	419
Lampiran 26. SPSS inkuiiri mengumpulkan data	421
Lampiran 27. SPSS inkuiiri menganalisis data	423
Lampiran 28. SPSS inkuiiri mengkomunikasikan hasil.....	425
Lampiran 29. SPSS lingkungan belajar	427

DAFTAR PUSTAKA

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