

**PENGARUH MODEL *GUIDED DISCOVERY LEARNING* BERBANTUAN
LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS
DAN *HABITS OF MIND* SISWA SMA**

TESIS

diajukan untuk memenuhi sebagian syarat untuk memperoleh gelar Magister
Pendidikan Fisika



oleh

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LECTORA INSPIRE TERHADAP KETERAMPILAN BERPIKIR KRITIS DAN
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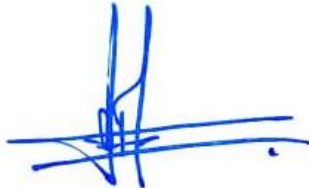
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PERNYATAAN

Dengan ini saya menyatakan bahwa tesis dengan judul “Pengaruh Model *Guided Discovery Learning* Berbantuan *Lectora Inspire* Terhadap Keterampilan Berpikir Kritis dan *Habits of Mind* Siswa SMA” ini beserta seluruh isinya adalah benar-benar karya saya sendiri. Saya tidak melakukan penjiplakan atau pengutipan dengan cara yang tidak sesuai dengan etika ilmu yang berlaku dalam masyarakat keilmuan. Atas pernyataan ini, saya siap menanggung resiko/sanksi apabila di kemudian hari ditemukan adanya pelanggaran etika keilmuan atau ada klaim dari pihak lain terhadap keaslian karya saya ini.

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ABSTRAK

Gelombang cahaya merupakan salah satu topik yang memerlukan keterampilan berpikir tingkat tinggi seperti berpikir kritis dikarenakan konsep materi yang abstrak dan dipadukan dengan kemampuan matematis. Namun, pentingnya topik ini belum selaras dengan tingginya keterampilan berpikir kritis yang dimiliki siswa SMA terhadap topik terkait. Keterampilan berpikir kritis siswa SMA seringkali dipengaruhi oleh profil *Habits of Mind* (HoM) yang dapat membantu belajar siswa. Oleh karena itu, penelitian ini bertujuan untuk mengetahui efektivitas penerapan model pembelajaran *guided discovery learning* (GDL) berbantuan media *lectora inspire* dalam meningkatkan keterampilan berpikir kritis pada topik gelombang cahaya dan profil HoM siswa SMA. Metode yang digunakan adalah *mixed-methods* dengan desain *embedded experimental model pre-post control group design*. Sampel penelitian terdiri dari 31 siswa di kelas kontrol dan 32 siswa di kelas eksperimen dengan rentang usia 16-19 tahun. Penelitian ini menggunakan instrumen utama berupa tes berpikir kritis dan penilaian diri HoM berskala Likert 4 poin. Penelitian ini memberikan hasil pada siswa kontrol memiliki rerata *N-Gain* sebesar 0,25 dengan kategori rendah, sedangkan kelas eksperimen memperoleh rerata *N-Gain* sebesar 0,36 dengan kategori sedang. Efektivitas penerapan model GDL berbantuan media *lectora inspire* dalam meningkatkan keterampilan berpikir kritis siswa dilihat melalui *independent sample t-test* sebesar 3,914 dan *effect size* dengan nilai Cohen's *d* sebesar 1,005. Hasil tersebut menunjukkan efektivitas yang sangat tinggi dalam meningkatkan keterampilan berpikir kritis siswa. Secara keseluruhan, siswa kelas eksperimen memiliki profil *habits of mind* positif sebesar 57,55% dan negatif sebesar 42,45%. Hasil ini menunjukkan siswa cenderung belum memiliki profil *habits of mind* yang baik untuk mendukung belajar siswa.

Kata kunci: *Lectora inspire*, keterampilan berpikir kritis, *Habits of Mind* (HoM), gelombang cahaya, *mixed methods*.

THE EFFECT OF THE GUIDED DISCOVERY LEARNING MODEL ASSISSTED BY LECTORA INSPIRE ON CRITICAL THINKING SKILLS AND HABITS OF MIND OF HIGH SCHOOL STUDENTS

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ABSTRACT

Light waves are a topic requiring high-level thinking skills, such as critical thinking, due to the abstract concept of the material combined with mathematical abilities. However, the importance of this topic is not in line with the high level of critical thinking skills possessed by high school students on related topics. High school students' critical thinking skills are often influenced by the Habits of Mind (HoM) profile that can help students learn. Therefore, this study aims to determine the effectiveness of implementing the guided discovery learning (GDL) learning model assisted by lectora inspire media in improving critical thinking skills on the topic of light waves and the HoM profile of high school students. The method used is mixed methods with an embedded experimental model pre-post control group design. The research sample consisted of 31 students in the control class and 32 students in the experimental class aged 16-19 years. This study uses the main instrument in the form of a critical thinking test and a 4-point Likert scale HoM self-assessment. This study provides results that control students have an average N-Gain of 0.25 with a low category, while the experimental class obtained an average N-Gain of 0.36 with a moderate category. The effectiveness of implementing the GDL model assisted by Lectora Inspire media in improving students' critical thinking skills is seen through the independent sample t-test of 3.914 and the effect size with a Cohen's d value of 1.005. These results indicate very high effectiveness in improving students' critical thinking skills. Overall, students in the experimental class have a positive habits of mind profile of 57.55% and a negative one of 42.45%. These results indicate that students tend not to have a good habits of mind profile to support student learning.

Keywords: Lectora inspire, critical thinking skills, Habits of Mind (HoM), light waves, mixed methods.

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