

ABSTRAK

PENGEMBANGAN INSTRUMEN ASESMEN KETERAMPILAN MENGUNAKAN REPRESENTASI PADA TOPIK IKATAN KIMIA

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Penelitian ini bertujuan untuk mengembangkan instrumen asesmen keterampilan menggunakan representasi pada topik ikatan kimia. Penelitian ini menggunakan model pengembangan 4D (*Define, Design, Develop, Disseminate*), namun dibatasi sampai tahap ketiga, yaitu pendefinisian, perancangan, dan pengembangan. Subjek penelitian ini adalah instrumen asesmen keterampilan menggunakan representasi pada topik ikatan kimia. Instrumen asesmen yang dikembangkan mengikuti kerangka kerja 3D-LAP (*Three-Dimensional Learning Assessment Protocol*), yaitu: *Scientific Practices*, *Crosscutting Concepts*, dan *Disciplinary Core Ideas*. Penelitian ini dilakukan di SMA Negeri 13 Bandar Lampung. Pada instrumen asesmen yang dikembangkan, dilakukan uji validasi ahli dan tanggapan guru. Instrumen asesmen yang dikembangkan dinilai dalam tiga aspek, yaitu aspek kesesuaian isi dengan (kurikulum, indikator keterampilan menggunakan representasi, dan 3D-LAP), aspek konstruksi, dan aspek kepraktisan. Berdasarkan validasi ahli diperoleh hasil yaitu pada aspek kesesuaian isi dengan (kurikulum, indikator keterampilan menggunakan representasi, dan 3D-LAP) dan aspek konstruksi berkategori sangat tinggi, hal ini menunjukkan bahwa instrumen yang dikembangkan valid. Berdasarkan tanggapan guru diperoleh hasil yaitu aspek kesesuaian isi dengan (kurikulum, indikator keterampilan menggunakan representasi, dan 3D-LAP), aspek konstruksi, dan aspek kepraktisan berkategori sangat tinggi. Berdasarkan hal tersebut, maka instrumen asesmen keterampilan menggunakan representasi pada topik ikatan kimia layak untuk digunakan.

Kata kunci: 3D-LAP, instrumen asesmen, ikatan kimia, keterampilan menggunakan representasi, model 4D

ABSTRACT

DEVELOPMENT OF AN ASSESSMENT INSTRUMENT FOR SKILL IN USING REPRESENTATIONS ON THE TOPIC OF CHEMICAL BONDING

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This study aims to develop an assessment instrument for skills using representations on the topic of chemical bonds. This study uses a 4D development model (Define, Design, Develop, Disseminate), but is limited to the third stage, namely defining, designing, and developing. The subject of this study is an assessment instrument for skills using representations on the topic of chemical bonds. The assessment instrument developed follows the 3D-LAP (Three-Dimensional Learning Assessment Protocol) framework, namely: Scientific Practices, Crosscutting Concepts, and Disciplinary Core Ideas. This study was conducted at SMA Negeri 13 Bandar Lampung. Expert validation tests and teacher responses were carried out on the developed assessment instrument. The developed assessment instrument was assessed in three aspects, namely the aspect of content suitability with (curriculum, indicators of skills using representations, and 3D-LAP), construction aspects, and practicality aspects. Based on expert validation, the results obtained are that the aspects of content suitability with (curriculum, indicators of skills using representation, and 3D-LAP) and construction aspects are categorized as very high, this indicates that the instrument developed is valid. Based on teacher responses, the results obtained are that the aspects of content suitability with (curriculum, indicators of skills using representation, and 3D-LAP), construction aspects, and practicality aspects are categorized as very high. Based on this, the assessment instrument for skills using representation on the topic of chemical bonds is feasible to use.

Keywords: 3D-LAP, 4D model, assessment instrument, chemical bonding, skills using representations