

ABSTRAK

Penelitian ini bertujuan untuk mengembangkan LKS praktikum berbasis inkuiри terbimbing pada topik kepolaran senyawa. LKS yang dihasilkan diuji cobakan untuk mengetahui keterlaksanaan tahapan inkuiри, dan respon siswa. LKS juga dinilai kesesuaian konsep dan tata bahasanya oleh guru dan dosen. Langkah-langkah penelitian meliputi studi pendahuluan dan pengembangan model (uji coba terbatas). Studi pendahuluan terdiri dari studi kepustakaan, survei lapangan, dan penyusunan produk awal. Pada studi kepustakaan digunakan instrumen lembar analisis LKS dengan sumber data LKS kepolaran senyawa yang ada di bahan ajar dan penelitian sebelumnya. Pada survei lapangan digunakan pedoman wawancara dengan sumber data 10 SMA di Bandung. Pada saat uji coba terbatas digunakan instrumen lembar observasi, pedoman penilaian jawaban siswa, dan angket respon siswa dengan sumber data 34 siswa SMA kelas X di Bandung, serta lembar penilaian guru dan dosen dengan sumber data 7 guru kimia SMA dan 3 dosen jurusan pendidikan kimia FPMIPA UPI. Hasil penelitian pada studi pendahuluan ditemukan bahwa praktikum uji kepolaran masih jarang dilakukan di sekolah dan karakteristik LKS praktikum yang digunakan bersifat instruksi langsung (*cook book*). Karakteristik LKS yang dikembangkan adalah LKS praktikum inkuiри terbimbing yang terdiri dari fenomena, rumusan masalah, membuat hipotesis, mengumpulkan data (memilih alat bahan, merancang prosedur, melakukan percobaan, mengisi tabel pengamatan, dan analisis data), menguji hipotesis, dan membuat kesimpulan. Hasil penelitian pada tahap pengembangan model, didapatkan bahwa keterlaksanaan LKS praktikum berbasis inkuiри terbimbing tergolong baik sekali dengan perolehan skor sebesar 91,97% yang terdiri dari observasi keterlaksanaan tahapan inkuiри (100%) dan skor jawaban siswa terhadap tugas-tugas dalam LKS (83,94%). Penilaian guru dan dosen terhadap kesesuaian LKS dengan konsep tergolong baik sekali dengan perolehan skor sebesar 82,38%, sedangkan penilaian guru dan dosen terhadap tata bahasa dalam LKS yang dikembangkan juga tergolong baik sekali dengan perolehan skor sebesar 82,88%. Respon siswa terhadap LKS berbasis inkuiри yang dikembangkan tergolong baik sekali dengan persentase skor 81,40%.

Kata kunci: LKS praktikum, inkuiри terbimbing, kepolaran senyawa

ABSTRACT

This study aims to develop guided inquiry lab-based worksheet on the topic of polar compounds. Worksheet assessed to determine the feasibility stage of inquiry, and student responses. Worksheet also assessed the suitability of the concept and grammar by teacher and lecturer. The step of this study include preliminary study and model development (limited testing). Preliminary study consist of literature study, survey and initial product design. The literature study used instrument analysis table of worksheet with data source worksheet of polar compound that exist in teaching material and previous research. Survey used interview guide with data source 10 senior high schools (SMA) in Bandung. At the time limited testing used instruments observation sheets, student's answer scoring guide, and students response questionnaire with data source 34 students of SMA 10th grade in Bandung, and assessment sheets for teacher and lecturer with data source 7 chemistry teacher in SMA and 3 lecturer in chemistry department of FPMIPA UPI. The result of preliminary study, it was found that the polarity of the test lab is still rarely performed in schools and the characteristics of lab worksheets used is direct instruction (cook book). Characteristic of worksheet which developed was a guided inquiry lab-based worksheet contained phenomenon, formulating problem, making hypothesis, collecting data (selecting tools and materials, designing procedure, performing experiment, filling observation tables, analyzing data), testing hypothesis, and making conclusion. The results of development model, it was found that the feasibility inquiry-based worksheet classified as excellent with score of 91.97%, based on the feasibility observations stage of inquiry (100%) and score students' answer to the tasks in worksheets (83, 94%). Assessment of teachers and lecturers to the suitability of worksheets with the concept classified as excellent with score of 82.38%, while the assessment of teachers and lecturers toward grammar in the worksheet are developed is also classified as excellent with score of 82.88%. Students' response to inquiry-based worksheet are developed classified as excellent with a percentage score of 81.40%.

Keywords: lab worksheet, guided inquiry, polar compound