ABSTRAK

Shivany Exsa Putri, NIM 4211121013 (2026), Pengembangan Instrumen Tes Literasi Numerasi berbasis Asesmen Kompetensi Minimum (AKM) berbantuan Aplikasi *Quizizz* pada Materi Suhu dan Kalor.

Penelitian ini bertujuan untuk mengembangkan instrumen tes literasi numerasi berbasis Asesmen Kompetensi Minimum (AKM) dengan bantuan aplikasi Quizizz pada materi Suhu dan Kalor, serta mengetahui kemampuan literasi numerasi siswa kelas XII MAN 1 Deli Serdang. Metode penelitian yang digunakan model 4D dalam pelaksanaannya terdiri dari 4 tahap yaitu Pendefinisian *(Define),* Perancangan *(design),* Pengembangan *(Development),* dan Penyebaran *(Dessiminate).* Subjek penelitian adalah siswa kelas XII IPA A MAN 1 Deli Serdang dengan uji coba dilakukan dalam dua tahap, yaitu uji kelompok kecil (5 siswa) dan uji kelompok besar (30 siswa). Instrumen diuji validitasnya oleh ahli dan dianalisis menggunakan *Microsoft Excel*. Hasil penelitian menunjukkan bahwa dari 20 butir soal, 16 soal dinyatakan valid dan 4 soal tidak valid. Instrumen memiliki reliabilitas tinggi dengan nilai KR-20 sebesar 0,800 untuk soal objektif sedangkan reliabilitas soal uraian sebesar -0,071. Tingkat kesukaran soal bervariasi (2 butir soal tergolong sukar, sedangkan 4 butir soal tergolong sedang. Dan untuk soal yang tergolong mudah yaitu 14 butir soal), dan daya pembeda sebagian besar berada dalam kategori baik hingga sangat baik. Sementara itu, kemampuan literasi numerasi siswa menunjukkan bahwa sebagian besar siswa berada pada kategori "cakap", yaitu sebanyak 17 siswa (56,67%). Selanjutnya, sebanyak 5 siswa (16,67%) termasuk dalam kategori "mahir", yaitu siswa yang memperoleh nilai diatas 75 yan menandakan pengusaan materi yang sangat baik. Disisi lain, masih terdapat 2 siswa (6,7%) yang berada pada kategori "perlu intervensi khusus", dengan skor dibawah 30. Secara keseluruhan, sebaran hasil belajar menujukkan bahwa pembelajaran telah berlangsung cukup efektif, namun tetap diperlukan evaluasi lanjutan untuk meminimalkan perbedaan kemampuan antar peserta didik.

Kata Kunci: Literasi Numerasi, AKM, Suhu dan Kalor, Instrumen Tes, Quizizz

ABSTRACK

Shivany Exsa Putri, NIM 4211121013 (2026), Development of a Numeracy Literacy Test Instrument based on Minimum Competency Assessment (AKM) assisted by the Quizizz Application on Temperature and Heat Material.

This study aims to develop a numeracy literacy test instrument based on the Minimum Competency Assessment (AKM) with the help of the Quizizz application on the material of Temperature and Heat, as well as to determine the numeracy literacy abilities of class XII students of MAN 1 Deli Serdang. The research method used is the 4D model in its implementation consisting of 4 stages, namely Define, Design, Development, and Dissemination. The subjects of the study were students of class XII IPA A MAN 1 Deli Serdang with the trial conducted in two stages, namely a small group test (5 students) and a large group test (30 students). The instrument was tested for validity by experts and analyzed using Microsoft Excel. The results showed that out of 20 questions, 16 questions were declared valid and 4 questions were invalid. The instrument has high reliability with a KR-20 value of 0,800 for objective questions while the reliability of descriptive questions was -0,071. The difficulty level of the questions varied (2 items were classified as difficult, while 4 items were classified as moderate. And for the questions that were classified as easy, namely 14 items), and the discriminating power was mostly in the good to very good category. Meanwhile, students' numeracy literacy skills showed that most students were in the "proficient" category, namely 17 students (56.67%). Furthermore, as many as 5 students (16.67%) were included in the "proficient" category, namely students who obtained a score above 75 which indicates very good mastery of the material. On the other hand, there were still 2 students (6.7%) who were in the "requires special intervention" category, with a score below 30. learning outcomes shows that learning has been quite effective, but further evaluation is still needed to minimize differences in ability between students.

Keywords: Numeracy Literacy, AKM, Temperature and Heat, Quizizz, Test Instrument