

**PENGEMBANGAN INSTRUMEN TES BERBASIS LITERASI SAINS
BERBANTUKAN GOOGLE FORM PADA
MATERI HUKUM NEWTON**

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ABSTRAK

Penelitian ini bertujuan untuk mengembangkan instrument tes berbasis literasi sains berbantuan google form pada materi Hukum Newton yang valid dan reliabel. Jenis penelitian ini adalah Penelitian Pengembangan (R&D), dengan menggunakan model 4D yang dibatasi menjadi 3D yaitu *define*, *design*, dan *development*. Uji skala kecil dan skala besar dilakukan dengan menggunakan *google form*, Hasil dari validitas isi yang dinilai oleh validator ahli memperoleh nilai yaitu CVR 19,5 dan CVI 0,925 menunjukkan kategori instrumen sangat layak. Pada uji skala kecil diketahui bahwa 11 soal valid dan 9 soal tidak valid. Nilai reliabilitas sebesar 1,04. Daya pembeda 11 soal sangat baik dan 9 soal jelek. Pada tingkat kesukaran 2 soal mudah, 7 soal sedang dan 11 soal sukar. Efektivitas pengecoh diperoleh 6 soal sangat baik, 8 soal baik, 5 soal cukup, dan 1 soal kurang baik Kemudian dari uji lapangan kecil soal dilanjutkan ke skala lebih luas. Pada uji skala lebih luas di dapatkan 10 soal valid dan 1 soal tidak valid. Nilai reliabilitas sebesar 1,04. Tingkat kesukaran soal diperoleh mudah sebanyak 3 soal, sedang 7 soal, dan sukar 1 soal. Daya pembeda sangat baik sebanyak 6 soal, cukup 2 soal, dan jelek 3 soal. Efektivitas pengecoh 9 soal sangat baik dan 2 soal kategori baik. Peroleham nilai siswa rata- rata 72,4. Respon peserta didik terhadap kelayakan instrument tes 6,6% menilai sangat baik, 50% menilai baik, dan 43,4% menilai cukup baik. Dari kriteria soal dapat disimpulkan bahwa 10 soal di terima, dan 10 soal ditolak.

Kata Kunci : Google Form, Instrumen Tes, Literasi Sains, Reliabilitas, Validitas



**DEVELOPMENT OF TEST INSTRUMENTS BASED ON SCIENCE
LITERATURE ASSISTED GOOGLE FORM
ON NEWTON'S LAW MATERIALS**

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ABSTRACT

This study aims to develop a scientific literacy-based test instrument assisted by google form on valid and reliable Newton's Law material. This type of research is Development Research (R&D), using a 4D model which is limited to 3D, namely define, design, and development. Small-scale and large-scale tests were carried out using the google form. The results of the validity assessed by the expert validators obtained a value of 19.5 CVR and 0.925 CVI indicating a very feasible instrument category. In the small-scale test, it is known that 11 questions are valid and 9 questions are invalid. The reliability value is 1.04. The distinguishing power of 11 questions is very good and 9 questions are bad. At the difficulty level, there are 2 easy questions, 7 medium questions and 11 difficult questions. The effectiveness of the distractor obtained 6 very good questions, 8 sufficient questions, and 1 question. Then from a small field test proceed to a wider scale. In the wider scale test, 10 valid questions and 1 invalid questions were obtained. The reliability value is 1.04. The level of difficulty of the questions obtained as many as 3 questions, moderate 7 questions, and difficult 1 question. The discriminatory power is very good as many as 6 questions, 2 questions are enough, and 3 questions are bad. The effectiveness of distractors 9 very good questions and 2 good category questions. The average student score is 72.4. The response of students to the test instrument was 6.6% good, 50% good, and 43.4% good. From the question criteria, it can be said that 10 questions were accepted, and 10 questions were rejected.

Key Word : Google Form, Test Instruments, Scientific Literacy, Reliability, Validity