

## ABSTRAK

**GUSTI SARAGIH, NPM: 170503134. “PENGEMBANGAN PERCOBAAN BUPENA PADA TEMA SIFAT-SIFAT CAHAYA UNTUK SISWA KELAS IV SD 106833 WONOSARI TANJUNG MORAWA TAHUN AJARAN 2021/2022”.**

Masalah dalam penelitian ini adalah materi yang terdapat dalam BUPENA singkat Berdasarkan hasil penelitian di peroleh bahwa nilai validasi terhadap produk yang di uji cobakan kepada siswa kelas IV SD Negeri 106833 Wonosari Tanjung Morawa memperoleh nilai sebesar 82% dan sesuai dengan 3 orang penguji kevalidan produk yang menyatakan produk pengembangan percobaan BUPENA pada tema sifat-sifat cahaya tersebut valid sehingga dapat di uji cobakan kepada siswa.

Jenis penelitian ini adalah Pengembangan atau *Reach and Development (R&D)* dengan model penelitian analisis, desain, development, implemmentation, dan evaluation dengan menggunakan model (ADDIE). Penelitian ini dilaksanakan di SD Negeri 106833 Wonosari Tanjung Morawa. Sampel penelitian ini adalah siswa kelas IV 106833 Wonosari Tanjung Morawa yang berjumlah 20 siswa. Alat pengumpulan data di peroleh dari angket yang di bagikan kepada siswa dan wawancara dengan wali kelas.

Hasil penelitian menunjukkan bahwa hasil validasi dari validator pertama di peroleh nilai 4 dinyatakan valid dan dapat di uji cobakan hasil validator kedua sebesar 4 dinyatakan valid dan dinyatakan dapat di uji cobakan, Hasil validator ke tiga sebesar 4 dinyatakan valid dan dapat di uji cobakan berdasarkan hasil angket respon siswa terhadap BUPENA di peroleh bahwa penggunaan produk BUPENA lebih efektif di dibandingkan tanpa BUPENA. Hal tersebut terlihat dari perolehan nilai siswa sebelum dan sesudah menggunakan BUPENA.

**Kata Kunci: Pengembangan ,Percobaan BUPENA, Sifat-sifat Cahaya**

## **ABSTRACT**

**GUSTI SARAGIH, NPM: 170503134. "DEVELOPMENT OF THE BUPENA EXPERIMENT ON THE THEME OF THE PROPERTIES OF LIGHT FOR CLASS IV STUDENTS OF SD 106833 WONOSARI TANJUNG MORAWA ACADEMIC YEAR 2021/2022".**

The problem in this study is the material contained in the short BUPENA. Based on the results of the study, it was found that the validation value of the product tested on fourth grade students of SD Negeri 106833 Wonosari Tanjung Morawa obtained a score of 82% and was in accordance with 3 product validity testers who stated The product development of BUPNA's experiment on the theme of the properties of light is valid so that it can be tested on students.

This type of research is Development or Reach and Development (R&D) with a research model of analysis, design, development, implementation, and evaluation using the model (ADDIE). This research was conducted at SD Negeri 106833 Wonosari Tanjung Morawa. The sample of this research is the fourth grade students 106833 Wonosari Tanjung Morawa, totaling 20 students. Data collection tools were obtained from questionnaires distributed to students and interviews with homeroom teachers.

The results showed that the validation results from the first validator obtained a value of 4 which was declared valid and could be tested. The results of the second validator of 4 were declared valid and declared to be tested, the results of the third validator of 4 were declared valid and could be tested based on the results of the questionnaire. Students' responses to BUPENA were found that the use of BUPENA products was more effective than without BUPENA. This can be seen from the students' scores before and after using BUPENA.

**Keywords: Development, BUPENA Experiment, Light Properties**