

## ABSTRAK

**Irma Yuliani Saragih, NPM: 1705030089, “Pengembangan BUPENA Pada Tema Sifat-Sifat Cahaya Di Kelas IV SD Negeri 091390 Panribuan Kec. Dolok Silau Tahun Ajaran 2020/2021. Skripsi S-1 Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Keguruan Dan Ilmu Pendidikan. Universitas Quality.**

Masalah dalam penelitian ini adalah keaktifan siswa yang masih rendah khususnya pada pokok bahasan sifat-sifat cahaya. Hal ini dikarenakan pembelajaran yang masih mendominasi guru sehingga keaktifan siswa terbatas dan bahan ajar yang digunakan terlalu ringkas sehingga masih sangat sulit dipahami siswa.

Tujuan dari penelitian ini adalah untuk mengembangkan Bahan Ajar (BUPENA) berbasis Sains Teknologi Masyarakat, dengan mengetahui kevalidan pengembangan BUPENA pada tema sifat-sifat cahaya dan keefektifan pengembangan BUPENA pada tema sifat-sifat cahaya. Penelitian ini dilakukan pada tanggal 29 April 2021 di kelas IV SDN 091390 Panribuan dengan 10 orang siswa pada materi sifat-sifat cahaya. Validasi dilakukan oleh dosen pengajar kelas 4 SD. Pengembangan bahan ajar mengikuti prosedur pengembangan ADDIE yang meliputi lima tahap yaitu: (1) analisis, (2) desain, (3) pengembangan, (4) implementasi, (5) evaluasi. Pengembangan BUPENA yang dikembangkan berupa materi yang berhubungan dengan kehidupan sehari-hari.

Berdasarkan hasil penelitian menunjukkan bahwa nilai validasi dari validator pertama memperoleh persentasi 91,9% dengan kriteria valid, validator kedua memperoleh persentasi 83,3% dengan kriteria valid, dan validator ketiga memperoleh persentasi 96,6 dengan kriteria valid. Sedangkan nilai keefektifan memperoleh rata-rata 40,0 atau persentasi 80% dengan kriteria baik. Berdasarkan hasil penelitian maka produk berupa BUPENA dinyatakan valid dan efektif serta dapat digunakan.

***Kata Kunci: Pengembangan, Sifat-Sifat Cahaya, BUPENA, IPA***

## ABSTRACT

**Irma Yuliani Saragih, NPM: 1705030089, “The Development of BUPENA on the Theme of the Properties of Light in Grade IV of SD Negeri 091390 Panribuan Kec. Dolok Glare for the 2020/2021 Academic Year. S-1 Thesis for Elementary School Teacher Education Study Program, Faculty of Teacher Training and Education. Quality University.**

The problem in this study is that student achievement is still low, especially on the subject of the properties of light. This is because learning still dominates the teacher so that student activity is limited and the teaching materials used are too concise so that it is still very difficult for students to understand.

The purpose of this research is to develop Teaching Materials (BUPENA) based on Community Science Technology, by knowing the validity of developing BUPENA on the theme of the properties of light and the effectiveness of developing BUPENA on the theme of the properties of light. This research was conducted on April 29, 2021 in the fourth grade of SDN 091390 Panribuan with 10 students on the material properties of light. Validation was carried out by 4th grade elementary school lecturers and teachers. The development of teaching materials follows the ADDIE development procedure which includes five stages, namely: (1) analysis, (2) design, (3) development, (4) implementation, (5) evaluation. The development of BUPENA developed in the form of materials related to daily life.

Based on the results of the study, it showed that the validation value of the first validator obtained a percentage of 91.9% with valid criteria, the second validator obtained a percentage of 83.3% with valid criteria, and the third validator obtained a percentage of 96.6 with valid criteria. While the value of effectiveness obtained an average of 40.0 or a percentage of 80% with good criteria. Based on the results of the study, the product in the form of BUPENA was declared valid and effective and could be used.

***Keywords: Development, Properties Of Light, BUPENA, IPA***