

Befa Damai Revolusi, 2024. *Pengembangan Bahan Ajar LKPD IPAS Berbasis Praktikum Topik Cahaya dan Sifatnya dalam Melatih Keterampilan Scientific process Siswa Kelas V SDN Banyuajuh 03*. Skripsi, Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Dosen Pembimbing : Isna Ida Mardiyana, S.Pd., M.Pd

## **ABSTRAK**

Penelitian ini bertujuan untuk mengembangkan produk bahan ajar LKPD IPAS berbasis praktikum topik cahaya dan sifatnya dalam melatih keterampilan *scientific process* siswa kelas V SDN Banyuajuh 03. Penelitian ini merupakan penelitian pengembangan dengan model penelitian 4D (*Four D*) dengan tahapan *Define, Design, Development, Disseminate*. Penelitian pengembangan ini menggunakan teknik pengumpulan data seperti observasi, wawancara, angket, dan tes. Kevalidan bahan ajar LKPD IPAS berbasis praktikum topik cahaya dan sifatnya dalam melatih keterampilan *scientific process* diperoleh dari validator desain pembelajaran 95,83%, validator materi 97,5%, dan validator bahan ajar 95,3%. Perolehan tingkat kevalidan berdasarkan rerata ahli yakni 96,21% LKPD dinyatakan “sangat valid”. Keefektivan bahan ajar LKPD, diperoleh dari observasi aktivitas, observasi keterampilan *scientific process* siswa, tes *scientific process*. Hasil observasi aktivitas guru pada uji coba implementasi memperoleh 96,3%, dengan kategori sangat aktif, observasi keterampilan *scientific process* siswa mendapatkan 89,17% dengan kategori sangat terlatih, berdasarkan tes *scientific process* siswa diperoleh tingkat ketuntasan klasikal siswa sebesar 90% dan dikategorikan dalam kategori tuntas. Hasil persentase kemenarikan berdasarkan respon guru mendapatkan 100%, dan angket respon siswa mendapatkan persentase 95,6% dengan kategori “sangat menarik”. LKPD IPAS berbasis praktikum topik cahaya dan sifatnya dalam melatih keterampilan *scientific process* dinyatakan valid, efektif, dan menarik serta dapat digunakan.

**Kata Kunci : LKPD, IPAS, Cahaya, *scientific process***

*Befa Damai Revolusi, 2024. Development of Practical-Based Teaching Materials for LKPD IPAS on the Topic of Light and Its Properties to Train the Scientific process Skills of Fifth-Grade Students at SDN Banyuajuh 03. Thesis, Elementary School Teacher Education Program, Faculty of Education, Trunojoyo University of Madura. Advisor: Isna Ida Mardiyana, S.Pd., M.Pd.*

### **ABSTRACT**

*This study aims to develop practical-based teaching material, LKPD IPAS, on the topic of light and its properties to train fifth-grade students' scientific process skills at SDN Banyuajuh 03. The research follows the 4D development model: Define, Design, Development, and Dissemination. Data collection methods include observation, interviews, questionnaires, and tests. The validity of the LKPD was rated by experts as follows: learning design validator at 95.83%, material validator at 97.5%, and teaching material validator at 95.3%, with an average validity of 96.21%, indicating "highly valid." Effectiveness was assessed through observations of teacher activities (96.3%, very active), students' scientific process skills (89.17%, highly trained), and scientific process tests (90% classical completeness, categorized as complete). The attractiveness was rated at 100% by teachers and 95.6% by students, categorized as "very attractive." The LKPD IPAS on light and its properties is valid, effective, and attractive, making it suitable for use.*

**Keywords:** *LKPD, IPAS, Light, Scientific process*