

# **DEVELOPMENT OF HIGHER ORDER THINKING SKILL (HOTS) ABILITY INSTRUMENTS FOR SCIENCE SUBJECTS IN CLASS VI SD STUDENTS**

**By**

**I Gede Adi Suwarma Putra, NIM. 2011031308**

**Primary School Teacher Education Study Program**

**Department of Basic Education**

## **ABSTRACT**

The lack of development of test questions that contain HOTS elements in training students to be able to think at a higher level means that students' high-level thinking abilities are still relatively low. Curriculum demands cannot be achieved optimally. This research aims to analyze the feasibility of the HOTS ability instrument for sixth grade elementary school students in science subjects to measure students' high-level thinking abilities. This research is development research that uses a 4D model. The 4D research model consists of four stages, namely define, design, develop, and disseminate. The subject of this research is the HOTS Instrument. The object of this research is the quality of the questions produced. The data collection techniques used in this research are quantitative observation, interviews, questionnaires and tests. In order to test its feasibility, an analysis of the multiple choice test instrument was carried out which included a content validity test, item validity test, reliability test, differential power test, and difficulty level test. The HOTS-based instrument for sixth grade elementary school students in science subjects obtained the results of data analysis, namely, the content validity test of the instrument was declared valid, the validity test of the instrument items was declared valid, the reliability test was declared to have high reliability, the average difference power test results were within good criteria, and the test difficulty level falls into the medium criteria. From the tests that have been carried out, the HOTS ability instrument on sixth grade elementary school students, science subjects are suitable for measuring students' high-level thinking abilities.

**Keywords:** Instrument, Higher Level Thinking Ability, Science Natural

# **PENGEMBANGAN INSTRUMEN KEMAMPUAN *HIGHER ORDER THINKING SKILL (HOTS)* UNTUK MATA PELAJARAN IPA PADA SISWA KELAS VI SD**

Oleh

**I Gede Adi Suwarma Putra, NIM. 2011031308**

**Program Studi Pendidikan Guru Sekolah Dasar**

**Jurusan Pendidikan Dasar**

## **ABSTRAK**

Kurangnya pengembangan soal tes yang mengandung unsur HOTS dalam melatih siswa untuk dapat berpikir tingkat tinggi menyebabkan kemampuan berpikir tingkat tinggi peserta didik masih tergolong rendah. Tuntutan kurikulum tidak dapat tercapai secara maksimal. Penelitian ini bertujuan untuk menganalisis kelayakan instrumen kemampuan HOTS pada siswa kelas VI SD mata Pelajaran IPA untuk mengukur kemampuan berpikir tingkat tinggi peserta didik. Penelitian ini merupakan penelitian pengembangan yang menggunakan model 4D. Model penelitian 4D terdiri dari empat tahap, yaitu *define*, *design*, *develop*, dan *disseminate*. Subyek dalam penelitian ini adalah Instrumen HOTS. Objek penelitian ini yaitu kualitas butir soal yang dihasilkan. Teknik pengumpulan data yang digunakan dalam penelitian ini yaitu, observasi kuantitatif, wawancara, angket, dan tes. Agar teruji kelayakannya, dilakukan analisis instrumen tes pilihan ganda yang meliputi uji validitas isi, uji validitas butir, uji reliabilitas, uji daya beda, serta uji tingkat kesukaran. Instrumen berbasis HOTS pada siswa kelas VI SD pada mata Pelajaran IPA, mendapatkan hasil analisis data yaitu, uji validitas isi instrument dinyatakan valid, uji validitas butir soal instrument dinyatakan valid, uji reliabilitas dinyatakan mempunyai reliabilitas tinggi, rata-rata hasil uji daya beda masuk dalam kriteria baik, serta uji tingkat kesukaran masuk dalam kriteria sedang. Dari uji yang telah dilakukan instrumen kemampuan HOTS pada siswa kelas VI SD mata Pelajaran IPA layak digunakan untuk mengukur kemampuan berpikir tingkat tinggi peserta didik.

**Kata Kunci:** Instrument, Kemampuan Berpikir Tingkat Tinggi, Ilmu Pengetahuan Alam