# DAFTAR ISI

|  |  |
| --- | --- |
| **KATA PENGANTA ...............................................................................** | **i** |
| **DAFTAR ISI ...........................................................................................** | **iv** |
| **DAFTAR GAMBAR ..............................................................................****DAFTAR TABEL ...................................................................................** | **vii****viii** |
| **BAB I PENDAHULUAN ..................................................................** | **1** |
| 1.1 Latar Belakang Masalah .................................................... | 1 |
| 1.2 Identifikasi Masalah .......................................................... | 6 |
| 1.3 Batasan Masalah ................................................................ | 6 |
| 1.4 Rumusan Masalah ............................................................. | 6 |
| 1.5 Tujuan Penelitian ............................................................... | 7 |
| 1.6 Manfaat Penelitian ............................................................. | 7 |
| 1.6.1 Manfaat Teoritis ..................................................... | 7 |
| 1.6.2 Manfaat Praktis .......................................................1.7 Spesifikasi Produk ............................................................ | 88 |
| **BAB II TINJAUAN PUSTAKA ........................................................** | **10** |
| 2.1 Kajian Teori ....................................................................... | 10 |
| 2.1.1 Media Pembelajaran ............................................... | 10 |
| 2.1.1.1 Pengertian Media Pembelajaran ................ | 10 |
| 2.1.1.2 Manfaat dan Fungsi Media Pembelajaran.. | 12 |
| 2.1.2 Animasi *Flipclip* ..................................................... | 13 |
| 2.1.2.1 Pengertian *Flipclip* .................................... | 13 |
| 2.1.2.2 Fungsi dan Manfaat *Flipclip* ..................... | 15 |

vi

2.1.2.3 Kelebihan dan Kekurangan ....................... 17

* + 1. Pembelajaran Matematika di Sekolah Dasar .......... 17
			1. Definisi Matematika di Sekolah Dasar ...... 17
			2. Tujuan Pembelajaran Matematika di

Sekolah Dasar .......................................... 19

* + 1. PAIKEM (Pembelajaran Aktif, Inovatif, Kreatif,

Efektif dan Menyenangkan) ................................... 20

2.1.4.1 Pengertian PAIKEM ................................. 20

* + - 1. Karakteristik Pembelajaran PAIKEM ....... 25
			2. Langkah-Langkah dalam Pembelajaran

PAIKEM .................................................. 26

* + - 1. Kelebihan dan Kekurangan Pembelajaran PAIKEM .................................................. 27

2.1.5 Materi Sifat-Sifat Bangun Ruang ........................... 28

2.1.5.1 Kompetensi Inti (KI) & Kompetensi

Dasar (KD) ............................................... 28

2.1.5.2 Pengertian Bangun Ruang ......................... 29

2.2 Penelitian yang Relevan .................................................... 41

2.3 Kerangka Berpikir ............................................................. 43

# BAB III METODE PENELITIAN ..................................................... 46

3.1 Jenis Penelitian .................................................................. 46

3.2 Desain Penelitian ............................................................... 46

3.3 Subjek, Objek dan Waktu Penelitian ................................. 48 3.3.1 Subjek Penelitian .................................................... 48

3.3.2 Objek Penelitian ..................................................... 48

3.3.3 Waktu Penelitian .................................................... 48

v

|  |  |  |
| --- | --- | --- |
|  | 3.4 Prosedur Penelitian Pengembangan ................................... | 48 |
| 3.5 Instrumen Dan Teknik Pengumpulan Data ....................... | 52 |
| 3.5.1 Instrumen (Angket) ................................................ | 52 |
| 3.5.2 Teknik Pengumpulan Data ..................................... | 54 |
| 3.6 Teknik Analisis Data ......................................................... | 55 |
| **BAB IV** | **HASIL PENELITIAN DAN PEMBAHASAN ....................** | **59** |
|  | 4.1 Hasil Pengembangan Media .............................................. | 59 |
|  | 4.1.1 Hasil Analisis Kebutuhan ....................................... | 59 |
|  | 4.1.2 Hasil Desain Produk ............................................... | 60 |
|  | 4.2 Kelayakan Media ............................................................... | 62 |
|  | 4.3 Efektifitas Media (Uji Coba Produk) ................................. | 65 |
|  | 4.3.1 Uji Coba Produk ..................................................... | 65 |
|  | 4.3.2 Respon Guru ........................................................... | 65 |
|  | 4.4 Pembahasan ....................................................................... | 67 |
|  | 4.4.1 Hasil Validasi Produk Ahli Media ......................... | 68 |
|  | 4.4.2 Hasil Validasi Produk Ahli Materi ......................... | 68 |
|  | 4.4.3 Uji Coba Produk ..................................................... | 69 |
| **BAB V** | **KESIMPULAN DAN SARAN ..............................................** | **71** |
|  | 5.1 Kesimpulan ........................................................................ | 71 |
|  | 5.2 Saran .................................................................................. | 71 |

# DAFTAR PUSTAKA ............................................................................. 73

vi

|  |  |  |
| --- | --- | --- |
| Gambar 2.1 | Kubus dan Jaring-Jaring ................................................... | 30 |
| Gambar 2.2 | Contoh Kubus 5 cm ........................................................... | 31 |
| Gambar 2.3 | Balok dan Jaring-Jaring .................................................... | 32 |
| Gambar 2.4 | Ilustrasi Balok Satuan ....................................................... | 32 |
| Gambar 2.5 | Contoh Balok .................................................................... | 33 |
| Gambar 2.6 | Prisma dan Jaring-Jaring .................................................. | 34 |
| Gambar 2.7 | Contoh Prisma .................................................................. | 34 |
| Gambar 2.8 | Limas dan Jaring-Jaring ................................................... | 36 |
| Gambar 2.9 | Contoh Limas ................................................................... | 37 |
| Gambar 2.10 | Tabung dan Jaring-Jaring ................................................. | 38 |
| Gambar 2.11 | Contoh Tabung ................................................................. | 39 |
| Gambar 2.12 | Kerucut dan Jaring-Jaring ................................................. | 40 |
| Gambar 2.13 | Contoh Kerucut ................................................................ | 40 |
| Gambar 2.14 | Kerangka Berpikir ............................................................ | 45 |
| Gambar 3.1 | Langkah-Langkah Brog and Gall ..................................... | 47 |
| Gambar 4.1 | Cover dan Animasi dalam Video Pembelajaran ………... | 61 |
| Gambar 4.2 | Pembahasan Materi dalam Videro Pembelajaran ………. | 61 |
| Gambar 4.3 | Materi dalam Video Pembelajaran ……………………… | 62 |
| Gambar 4.4 | Grafik Rata-Rata Validasi ……………………………….. | 66 |
|  |  |  |

vii

|  |  |  |
| --- | --- | --- |
| Tabel 3.1 | Kisi-Kisi Instrumen Angket Validasi Ahli Media ............ | 54 |
| Tabel 3.2 | Kisi-Kisi Instrumen Ahli Materi ...................................... | 54 |
| Tabel 3.3 | Kisi-Kisi Instrumen Responden Guru .............................. | 55 |
| Tabel 3.4 | Skor Penilaian Validasi Ahli (dimodifikasi) .................... | 57 |
| Tabel 3.5 | Kriteria Validasi ............................................................... | 57 |
| Tabel 3.6 | Skor Penilaian Validasi Ahli (Dimodifikasi) ................... | 58 |
| Tabel 3.7 | Pengkonversian Skor ........................................................ | 58 |
| Tabel 4.1  | Penilaian Ahli Materi ........................................................ |  63 |
| Tabel 4.2 | Penilaian Ahli Media ........................................................ |  64 |
| Tabel 4.3 | Respon Guru ...................................................................... |  65 |