

ABSTRAK

ENENG NURHAMIDAH 2026. **EFEKTIVITAS MODEL PEMBELAJARAN *PROJECT BASED LEARNING* (PjBL) BERBATUAN *VIDEO STOP MOTION* TERHADAP HASIL BELAJAR DAN KETERAMPILAN BERPIKIR KRITIS PADA MATERI VIRUS (Studi Eksperimen di Kelas X SMA Terpadu Darul Muta'allimin Kota Tasikmalaya Tahun Ajaran 2025/2026).** Jurusan Pendidikan Biologi Fakultas Keguruan dan Ilmu Pendidikan, Universitas Siliwangi, Tasikmalaya.

Penelitian ini bertujuan untuk mengetahui efektivitas model pembelajaran (PjBL) berbantuan *video stop motion* terhadap hasil belajar dan keterampilan berpikir kritis peserta didik pada materi virus. Penelitian ini dilaksanakan di kelas X MIPA SMA Terpadu Darul Muta'allimin. Metode penelitian yang digunakan adalah metode kuantitatif dengan desain eksperimen yang melibatkan kelas eksperimen dan kelas kontrol. Sampel yang digunakan yaitu teknik total sampling dengan menggunakan seluruh kelas untuk dijadikan sampel. Instrumen penelitian yang digunakan berupa tes hasil belajar dan tes keterampilan berpikir kritis yang diberikan dalam bentuk *pretest* dan *posttest*. Data yang diperoleh dianalisis menggunakan uji normalitas, uji homogenitas, dan uji hipotesis *Independent Samples Test* dengan bantuan IBM SPSS versi 26. Hasil penelitian menunjukkan bahwa terdapat peningkatan rata-rata hasil belajar dan keterampilan berpikir kritis pada kelas eksperimen setelah diterapkan model pembelajaran PjBL berbantuan *video stop motion*. Rata-rata hasil belajar kelas eksperimen meningkat dari 20,4 menjadi 23,3, sedangkan rata-rata keterampilan berpikir kritis meningkat dari 34,7 menjadi 40,3. Hasil uji hipotesis menunjukkan nilai signifikansi $0,000 < 0,05$, sehingga H_0 ditolak dan H_a diterima. Dengan demikian, dapat disimpulkan bahwa model pembelajaran *Project Based Learning* berbantuan *video stop motion* efektif terhadap hasil belajar dan keterampilan berpikir kritis peserta didik pada materi virus.

Kata kunci: *Project Based Learning*, *video stop motion*, hasil belajar, keterampilan berpikir kritis, virus.

ABSTRACT

ENENG NURHAMIDAH 2026. EFFECTIVENESS OF PROJECT BASED LEARNING (PjBL) MODEL USING STOP MOTION VIDEO ON LEARNING OUTCOMES AND CRITICAL THINKING SKILLS ON VIRUS MATERIAL (Experimental Study in Grade X of Darul Muta'allimin Integrated Senior High School, Tasikmalaya City, Academic Year 2025/2026). Department of Biology Education, Faculty of Teacher Training and Education, Siliwangi University, Tasikmalaya

This study aims to find out the effectiveness of the Project Based Learning (PjBL) model supported by stop motion videos on students' learning outcomes and critical thinking skills on virus material. The research was conducted in class X MIPA at SMA Terpadu Darul Muta'allimin. The research method used is quantitative with an experimental design involving an experimental class and a control class. . The sample used was a total sampling technique by considering taking the entire class to be used as a research sample. The research instruments used were learning outcome tests and critical thinking skills tests given in the form of pretests and posttests. The research instruments used were learning outcome tests and critical thinking skills tests given in the form of pretests and posttests. The data obtained were analyzed using normality tests, homogeneity tests, and hypothesis testing with the Independent Samples Test using IBM SPSS version 26. The research results show that there was an increase in the average learning outcomes and critical thinking skills in the experimental class after applying the Project-Based Learning model assisted by stop-motion videos. The average learning outcomes in the experimental class increased from 20.4 to 23.3, while the average critical thinking skills increased from 34.7 to 40.3. The hypothesis test results showed a significance value of $0.000 < 0.05$, so H_0 was rejected and H_a was accepted. Thus, it can be concluded that the Project-Based Learning model assisted by stop-motion videos is effective for students' learning outcomes and critical thinking skills on the topic of viruses.

Keywords: Project-Based Learning, stop-motion video, learning outcomes, critical thinking skills, virus.