

**ABSTRAK****PENGEMBANGAN PROTOTIPE CERGAM TENTANG  
PENJERNIHAN AIR UNTUK PEMBELAJARAN TEMATIK  
KELAS IV SEKOLAH DASAR**

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2020

Pembelajaran Kurikulum 2013 sudah terintegrasi dengan pendidikan lingkungan hidup. Dari wawancara kepada guru kelas IV dan hasil angket siswa kelas V sekolah dasar, peneliti mendapatkan data bahwa diperlukan media berupa prototipe cergam yang berkaitan dengan pelestarian lingkungan. Tujuan penelitian ini adalah mengembangkan prototipe cergam tentang penjernihan air yang dapat digunakan sebagai media pembelajaran dan sarana literasi pada pembelajaran di kelas IV, tema 3, subtema 3, pembelajaran 1.

Prosedur pengembangan penelitian ini adalah *Research & Development (R&D)* dengan model pengembangan ADDIE (dalam Tung Yao, 2017: 58-67) yaitu: (1) *Analyze*, (2) *Design*, (3) *Develop*, (4) *Implementation*, (5) *Evaluation*. Subjek penelitian ini adalah siswa kelas IV di SD Sanjaya Tritis Yogyakarta. Objek penelitian ini adalah prototipe cergam tentang penjernihan air keruh dalam konteks pelestarian lingkungan. Teknik pengumpulan data yang digunakan dalam penelitian ini yaitu wawancara dan angket. Prototipe cergam divalidasi oleh dosen Kimia dan dosen Bahasa & Sastra Indonesia. Skor rata-rata dari dua validator tersebut adalah 3,35 (dari rentang 1-4) artinya sangat baik sehingga prototipe cergam layak diujicobakan setelah revisi.

Hasil uji coba yang dilakukan peneliti kepada 10 siswa kelas IV SD Sanjaya Tritis Pakem Yogyakarta, cergam tersebut membantu siswa memahami *nicofilter* sebagai alat penjernihan air keruh, dengan skor rata-rata 3,8 (sangat baik). Dengan demikian cergam dapat menjadi sarana untuk pembelajaran 1, tema 3 “Peduli Terhadap Makhluk Hidup” dengan subtema 3 “Ayo Cintai Lingkungan”.

**Kata kunci:** Prototipe, cergam, penjernihan air, *nicofilter*.

**ABSTRACT****DEVELOPMENT OF PROTOTYPE ILLUSTRATED STORY ABOUT  
WATER PURIFYING FOR THEMATIC LEARNING  
CLASS IV ELEMENTARY SCHOOL**

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*The 2013 learning curriculum has been integrated with environmental education. From the results of interviews with fourth grade teachers and the results of fourth grade elementary school questionnaires, researchers obtained data that media is needed in the form of prototypes of illustrated stories related to environmental preservation. The purpose of this research is to develop a prototype of a pictorial story that is used as a learning medium and literacy facilities in the first learning, theme three, sub-theme three, fourth grade elementary school students.*

*The procedure of developing this research were Research & Development (R&D) with ADDIE development style (in Tung Yao, 2017: 58-67) such as: Analyze, Design, Develop, Implementation, Evaluation. The subject of this research was fourth grade of Sanjaya Tritis Yogyakarta Elementary School Students. The object was prototype illustrated stories about purifying turbid water in the context of environmental preservation. Data collection techniques used by the researcher were interview and questionnaire. The illustrated stories prototype was validated by a chemistry lecturer and Indonesian language and literature lecturer with an average score 3,35 (from range score 1-4) the meaning is very good and the illustrated stories prototype is worth trying out after it has been revised.*

*The results of trials conducted by researchers to 10 grade IV students of SD Sanjaya Tritis Pakem Yogyakarta, the comics help students understand nicofilter as a turbid water purification tool, with an average score of 3.8 (very good). Thus comic can be a means for learning 1, theme 3 "Care for Living Things" with sub-theme 3 "Let's Love the Environment".*

**Keywords:** *Prototype, illustrated stories, water purification, nicofilter.*