

**COMIC AS MEDIA ON LEARNING HUMAN RESPIRATORY SYSTEM
TO IMPROVE STUDENTS CRITICAL THINKING**

RESEARCH PAPER

Submitted as Requirement to Obtain Degree of *Sarjana Pendidikan* in
International Program on Science Education (IPSE) Study Program



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**INTERNATIONAL PROGRAM ON SCIENCE EDUCATION
FACULTY OF MATHEMATICS AND SCIENCE EDUCATION
UNIVERSITAS PENDIDIKAN INDONESIA**

2024

COMIC AS MEDIA ON LEARNING HUMAN RESPIRATORY SYSTEM TO IMPROVE STUDENTS CRITICAL THINKING

Oleh
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Sebuah skripsi yang diajukan untuk memenuhi syarat memperoleh gelar Sarjana Pendidikan pada Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam

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DECLARATION

I declare that my thesis entitled "Comic as Media on Learning Human Respiratory System to Improve Students' Critical Thinking" does not contain any work that I have copied or plagiarized from others, except for the sections where proper references are provided following the rules of scientific writing. I also declare that this work has never been submitted, either in part or in whole, for any academic degree at another university. If in the future it is discovered that this statement is not true, I am willing to accept academic sanctions following the regulations in force at Universitas Pendidikan Indonesia.

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ACKNOWLEDGEMENT

Thank you to Allah SWT because I am still given the blessings of health and knowledge so that I can write and complete this research paper on time. Apart from Allah SWT, the author also expresses many thanks to all parties involved and helping in writing this research paper, these people are

1. Dr. Rika Rafikah Agustin, M.Pd as a my second supervisor who is always patient in guiding me and always motivates me to complete this research paper on time
2. Dr. Diana Rochintaniawati, M.Ed, as my first supervisor, always helped and made it easier for me to complete this research paper
3. Dr. Nanang Winarno, S.Si., S.Pd., M.Pd as my academic supervisor who always motivates me to complete this research paper on time
4. All IPSE lecturers and staff who always help me in my learning so that I can reach this stage
5. Ea Juariyah, my junior high school science teacher, who helped and supported me in working on this research paper
6. Students and all staff of SMPN 1 Jonggol who have participated and helped me in this research
7. My family who always pray for me, Bapak, Ibu, Embah, endeh tuti dan endeh ati who always help me with difficulties in studying as well as all my younger siblings and my cat who have entertained me in working on this research paper
8. Kiki Nursafitri Azzahra, my sister who always keeps me motivated and enthusiastic about doing this research paper
9. Adinda Zaskia, Denissa Fadila, Alnafa, Yusika, Syifa Nuriyah, Jihan Reyhana who have entertained, helped, and accompanied me in working on this research paper
10. All my friends from IPSE 2020 who always accompany me in the lecture process and always make me a better person
11. Alfin Anwar who always entertains, motivates me, and is always patient in listening to my complaints

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ABSTRACT

Critical thinking is one of the important skills in the 21st century that students need to analyze problems and find solutions. This research aims to explain the use of comics in learning and analyze the improvement of students' critical thinking skills on the human respiratory system material. A total of 39 class VIII junior high school students participated in this research. A quantitative approach with a one-group pre-test and post-test design was used in this research. Research instruments include critical thinking questionnaires, student responses to comics, and peer observations, interviews to strengthen the findings. The research results show that the use of comics makes students more active in asking questions and concluding learning results. Analysis using the Wilcoxon test was used because the data was not normal and the results showed a moderate increase in critical thinking skills. The critical thinking instrument showed an increase in the basic specification score from 31.2 (pre-test) to 65.1 (post-test), which was higher than the inference scores of 26.2 (pre-test) and 59 (post-test). This was answered in student interviews who said that comics were able to make learning easier for them because of the illustrations, colors, and storylines in comics which made it easier for students to understand. In conclusion, comics were effective as a learning medium on the human respiratory system to improve students' critical thinking, thanks to the components such as illustrations, pictures, colors, and storylines that support understanding.

Keywords: Critical thinking, Media, Students, Comic

KOMIK SEBAGAI MEDIA PEMBELAJARAN SISTEM PERNAPASAN MANUSIA UNTUK MENINGKATKAN BERPIKIR KRITIS SISWA

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ABSTRAK

Berpikir kritis merupakan salah satu keterampilan penting di abad ke-21 yang dibutuhkan siswa untuk menganalisis masalah dan mencari solusi. Penelitian ini bertujuan untuk menjelaskan pemanfaatan komik dalam pembelajaran dan menganalisis peningkatan kemampuan berpikir kritis siswa pada materi sistem pernafasan manusia. Sebanyak 39 siswa kelas VIII SMP berpartisipasi dalam penelitian ini. Pendekatan kuantitatif dengan one-group pre-test and post-test design digunakan dalam penelitian ini. Instrumen penelitian berupa angket berpikir kritis, respon siswa terhadap komik, dan observasi teman sejawat, wawancara untuk memperkuat temuan. Hasil penelitian menunjukkan bahwa penggunaan komik membuat siswa lebih aktif dalam bertanya dan menyimpulkan hasil belajar. Analisis menggunakan uji Wilcoxon digunakan karena data tidak normal dan hasilnya menunjukkan peningkatan keterampilan berpikir kritis yang sedang. Instrumen berpikir kritis menunjukkan peningkatan skor spesifikasi dasar dari 31,2 (pre-test) menjadi 65,1 (post-test), lebih tinggi dibandingkan skor inferensi sebesar 26,2 (pre-test) dan 59 (post-test). Hal ini terjawab dalam wawancara siswa yang mengatakan bahwa komik mampu memudahkan pembelajaran mereka karena ilustrasi, warna, dan alur cerita dalam komik memudahkan siswa untuk memahaminya. Kesimpulannya, komik efektif sebagai media pembelajaran sistem pernafasan manusia untuk meningkatkan berpikir kritis siswa, berkat komponen ilustrasi, gambar, warna, dan alur cerita yang mendukung pemahaman.

Kata Kunci: Berpikir Kritis, Media, Siswa, Komik

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