

## ABSTRAK

Kemampuan pemahaman konsep IPA siswa kelas V pada materi sistem pernapasan manusia masih tergolong rendah. Kondisi ini ditunjukkan oleh rendahnya kemampuan siswa dalam menyatakan kembali konsep, mengklasifikasikan objek, memberikan contoh dan noncontoh, serta mengaplikasikan konsep dalam kehidupan sehari-hari. Selain itu, proses pembelajaran yang masih berpusat pada guru dan penggunaan media pembelajaran yang kurang menarik menyebabkan siswa kurang aktif sehingga berdampak pada rendahnya kemampuan pemahaman konsep. Oleh karena itu, diperlukan media pembelajaran yang inovatif dan interaktif, salah satunya melalui game edukasi berbasis Wordwall. Penelitian ini bertujuan untuk meningkatkan kemampuan pemahaman konsep IPA siswa kelas V SD Negeri 1 Syamtalira Bayu melalui penerapan game edukasi berbasis Wordwall pada materi sistem pernapasan manusia. Penelitian ini menggunakan metode Penelitian Tindakan Kelas (PTK) yang dilaksanakan dalam dua siklus dengan subjek penelitian sebanyak 24 siswa. Teknik pengumpulan data menggunakan observasi, tes, dan dokumentasi, sedangkan analisis data dilakukan secara deskriptif kuantitatif dan kualitatif. Hasil penelitian menunjukkan bahwa penerapan game edukasi berbasis Wordwall mampu meningkatkan kemampuan pemahaman konsep IPA siswa. Hal ini ditunjukkan oleh peningkatan nilai rata-rata siswa dari 54,70 pada pra siklus dengan persentase ketuntasan 29,16%, meningkat menjadi 65,95 pada siklus I dengan persentase ketuntasan 45,83%, dan kembali meningkat menjadi 78,29 pada siklus II dengan persentase ketuntasan 83,33%. Selain itu, aktivitas, motivasi, dan antusiasme siswa selama proses pembelajaran juga mengalami peningkatan. Dengan demikian, dapat disimpulkan bahwa penerapan game edukasi berbasis Wordwall efektif dalam meningkatkan kemampuan pemahaman konsep IPA siswa kelas V SD Negeri 1 Syamtalira Bayu.

Kata kunci: Wordwall, game edukasi, pemahaman konsep, IPA, Penelitian Tindakan Kelas.

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## ABSTRACT

*The conceptual understanding of science among fifth-grade students on the topic of the human respiratory system was still relatively low. This condition was indicated by students' difficulties in restating concepts, classifying objects, providing examples and non-examples, and applying concepts in everyday life. In addition, the teacher-centered learning process and the lack of engaging instructional media resulted in low student participation, which affected their conceptual understanding. Therefore, an innovative and interactive learning medium, such as the Wordwall-based educational game, was needed to improve students' conceptual understanding. This study aimed to improve the science conceptual understanding of fifth-grade students at SD Negeri 1 Syamtalira Bayu through the implementation of a Wordwall-based educational game on the topic of the human respiratory system. This research employed Classroom Action Research (CAR), which was conducted in two cycles involving 24 students as the research subjects. Data were collected through observation, tests, and documentation and were analyzed using descriptive quantitative and qualitative methods. The results showed that the implementation of the Wordwall-based educational game improved students' conceptual understanding of science. This improvement was indicated by the increase in the students' average score from 54,70 in the pre-cycle with a learning mastery percentage of 29,16%, to 65,95 in Cycle I with a learning mastery percentage of 45,83%, and further increased to 78,29 in Cycle II with a learning mastery percentage of 83,33%. In addition, students' learning activities, motivation, and enthusiasm also improved throughout the learning process. Therefore, it can be concluded that the implementation of the Wordwall-based educational game was effective in improving the science conceptual understanding of fifth-grade students at SD Negeri 1 Syamtalira Bayu.*

*Keywords: Wordwall, educational game, conceptual understanding, science, classroom action research.*

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