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APPLICATION OF INFOGRAPHIC MEDIA WITH A PROBLEM-BASED LEARNING APPROACH TO IMPROVE SCIENCE LEARNING OUTCOMES AND STUDENT ACTIVITY

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Introduction

Problems



The determination of the learning program contained in the curriculum is now no longer based on the amount of material. However, prioritizing the quality of learning and deepening the knowledge, skills and character of students (Ziaurrahman, Tabrani, & Andriansyah 2024).

There is an achievement of learning outcomes that do not meet the minimum criteria of 60% in science learning.

Fact



Determining models and strategies that are interesting for students is certainly very much supported if they are chosen appropriately by teachers and in accordance with learning objectives (Kristin et al., 2022).

Cause of problem



Based on observations in class, the learning model and learning media are less supportive.

Solution



- The importance of learning strategies that involve students in learning has a positive impact (Hammill, et. al., 2022).
- A fun learning model in honing students' curiosity and activeness is problem-based learning. Infographic media is widely supported by images and writings that attract attention (Askar Khalid, 2014).
- There needs to be a combination of the two to improve learning outcomes and student activity.





PROBLEM STATEMENT

#1 Research Question

Can infographic media with a problem-based learning approach improve student learning outcomes?

#2 Research Question

How can the application of infographic media with a problem-based learning approach improve student learning outcomes?



LITERATURE REVIEW

Overview

- Learning Model Theory
- Problem Based Learning Theory
- Infographic Media Learning Theory

Problem based learning is one active learning and it is needed where students can play an active role in learning.

The Problem Based Learning model or problem solving is a learning method by giving students a problem to solve or resolve using an open problem concept in learning (Hotimah, 2020).

The application of infographic media can improve student learning outcomes (Yuyun, et., al. 2023)

METHOD OF RESEARCH



Classroom Action Research

This study uses method with classroom action research
Model Kemmis & Taggart



The subject of this study were students of Salman Al Farisi Elementary School in Bandung with a population of fifth grade students and a sample of 28 people

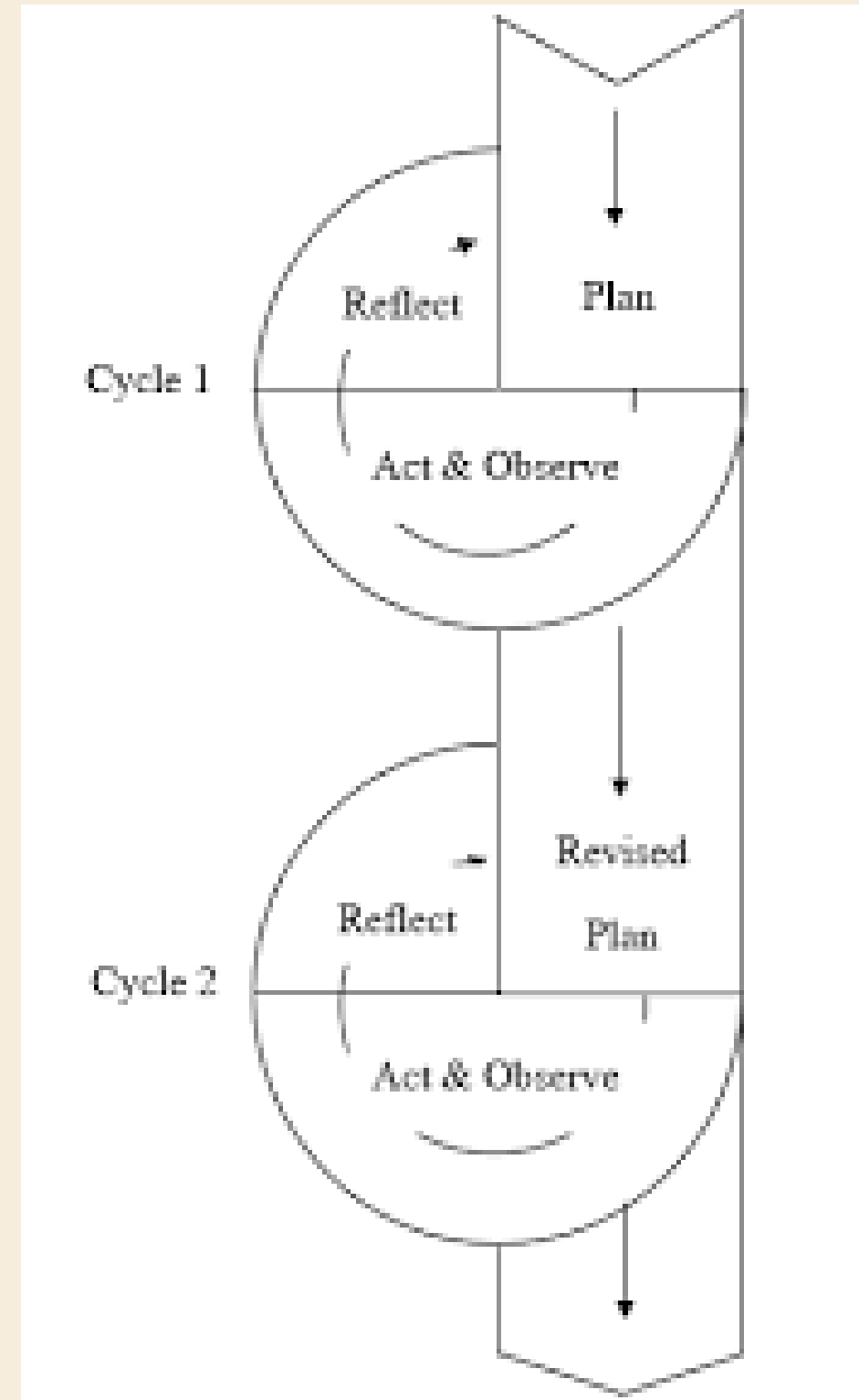
Data collection technique:

- test
- interview
- observation

PROCEDURE OF RESEARCH



This research had been conducted using Classroom Action Research. According to Kemmis and McTaggart (1988), action research is a deliberate, solution-oriented investigation that is group or personally owned and conducted. It is characterized by spiralling cycles of problem identification, systematic data collection, reflection, analysis, data-driven action taken, and, finally, problem redefinition. The steps of action research are based on Kemmis and McTaggart (1988).

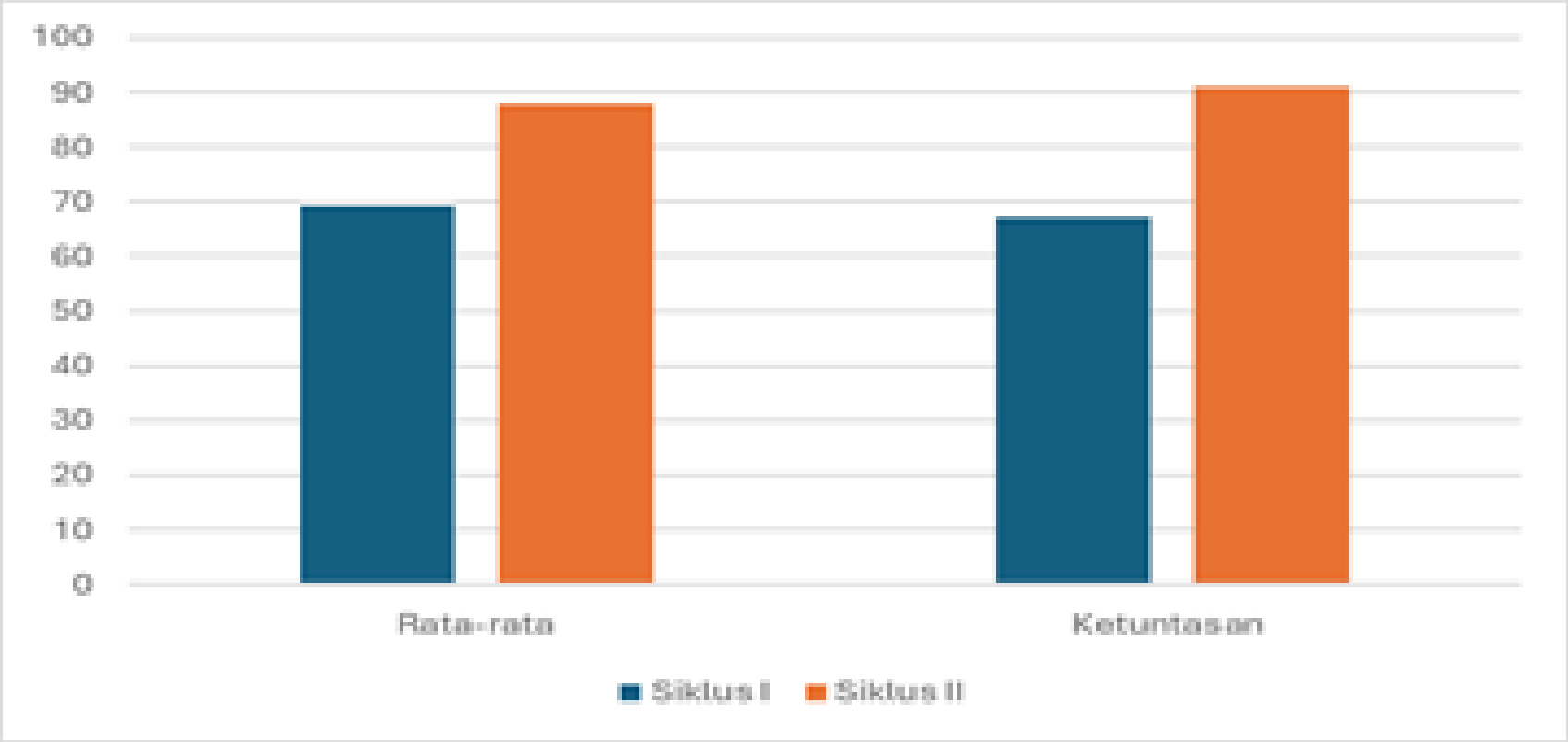


FINDING & DISCUSSION §



Table. Activity of Students

	Siklus I	Sikus II
Minimum Score	6	10
Maximize Score	24	28
Average	68%	80%



Graphic. The Result Tests

The results test show an increase in learning outcomes from cycle I and cycle II.

DISCUSSION



The results of this classroom action research indicate that infographic media with a problem-based learning model approach is a learning media that is suitable for application in elementary schools.

This method is very appropriate for children because it is very relevant to the world of children, helps to arouse interest in learning and motivates children so that learning outcomes can be maximized. If this learning media is applied continuously in elementary schools, then not only the knowledge aspect is achieved but also the skill aspect that can be developed in accordance with the demands of technological modernization in the field of education (Salam, 2021).



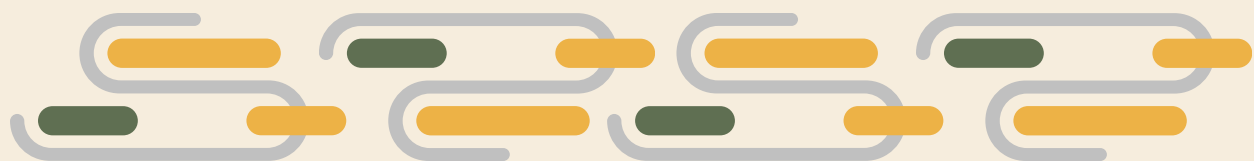
CONCLUSION

1. The study concluded that infographic media with a problem-based learning approach can improve student learning outcomes in elementary schools. This is indicated by an increase in student learning outcomes after the application of this media and learning model in learning activities.
2. The application of infographic media with a problem-based learning approach is very good for developing students' cognitive intelligence in understanding the subject matter. This is evidenced by an increase in students' ability to complete learning outcome tests after being given learning actions with infographic media.



REFERENCES

- Askar Khalid. (2014). Using Infograpjics in the Science Classroom: JSTOR, 85(1), 2071–2079.
- Hammill, J., Nguyen, T., & Henderson, F. (2022). Student Engagement: The Impact of Positive Psychology Interventions on Students. *Active Learning in Higher Education*, 23(2), 129–142.
<https://doi.org/10.1177/1469787420950589>
- Kemmis, Stephen and McTaggart, Robin. *The Action Research Planner*, 3rd Edition, Geelong: Deakin University, 1988.
- Kristin, F., Soesilo, T. D., & Setyorini, S. (2022). Pengaruh Penerapan Model Pembelajaran terhadap Kemandirian Belajar Siswa SD pada Masa Pandemi Covid-19. *Jurnal Basicedu*, 6(3), 3945–3953.
<https://doi.org/10.31004/basicedu.v6i3.2728>
- Salam, M., & Wahyuni, A. (2021). Model Project Based Learning Berbasis Infografis pada Mata Kuliah Pancasila untuk Meningkatkan Kemampuan Berfikir Kreatif dan Kritis Mahasiswa Prodi Pendidikan Sejarah. *Jurnal Basicedu*, 5(6), 5793–5801. <https://doi.org/10.31004/basicedu.v5i6.1709>
- Ziaurrahman, Z., Tabrani, Z., & Andriansyah, A. (2024). Pengembangan E-Book Interaktif untuk Menunjang Pembelajaran Diferensiasi pada Mata Pelajaran Pendidikan Agama Islam di Sekolah Dasar. *Jurnal Didaktika Pendidikan Dasar*, 8(1), 165–184. <https://doi.org/10.26811/didaktika.v8i1.1333>





THANK YOU