

CREATIVITY AND INNOVATION COLLABORATION IN THEMATIC LEARNING: A REVIEW OF THE LITERATURE

Rengga Yudha Santoso *

Universitas PGRI Mpu Sindok, Indonesia
renggappkn@upms.ac.id

Ali Mansur

Universitas PGRI Mpu Sindok, Indonesia
alimansur@upms.ac.id

Muhammad Akbar Hajuan

Universitas PGRI Mpu Sindok, Indonesia
akbar@umps.ac.id

Abstract

The purpose of this study is to investigate Creativity and Innovation Collaboration in Thematic Learning: A Review of the Literature. The form of this research is descriptive, analytical, and critical. Therefore, the author can provide a comprehensive description of the investigation, Creativity and Innovation Collaboration in Thematic Learning: A Review of the Literature. In this study, the author optimally uses two data sources related to this research, namely. Primary data sources and secondary data sources. The study's results demonstrate that synergy and collaboration between creativity and innovation in thematic learning have a positive impact on both student learning outcomes and creativity. The application of creative and innovative approaches can create a more meaningful and enjoyable learning experience, thereby increasing student motivation and involvement in the learning process.

Keywords: Creativity, Innovation, Collaboration, Thematic, Learning, Review Literature

Introduction

In the face of the challenges posed by globalization and the rapid development of information technology, the world of education must adapt and innovate to create a relevant and meaningful learning experience for students. Thematic learning, which integrates various subjects around a single theme, is one practical approach to achieving this goal. Creativity and innovation are two essential elements of thematic learning. Creativity enables students to think critically and generate new ideas, while innovation involves the application of those ideas in learning practices. The synergy between creativity and innovation can create a dynamic and challenging learning environment, which, in turn, can enhance student motivation and improve learning outcomes. (Baldwin, 2016)(Agboh, 2000)

While the importance of the synergy between creativity and innovation in thematic learning is recognized, its implementation still faces various challenges. These include teachers' limited understanding of creativity and innovation concepts, limited resources, and resistance to change. Therefore, there is a pressing need for an in-depth study to

understand how this synergy can be effectively implemented in thematic learning. (Acar et al., 2019) This research aims to review the existing literature on the topic, with the hope of providing insights and recommendations for the development of more creative and innovative learning practices in the future. (Ummar & Saleem, 2020)

The collaboration between creativity and innovation in learning is not just a strategy, but an effective one. It creates an engaging, relevant, and meaningful learning experience for students. This synergy not only increases student engagement but also prepares them to face the challenges of the 21st century. Research by Evi Fitriyanti indicates that the synergy between creativity and innovation in thematic learning can enhance student learning outcomes and foster creativity. This approach offers a more engaging learning experience, yielding students who are creative, innovative, and well-prepared for future challenges. (Kesim, 2009)

Encouraging 21st-century competency development, SMAN 1 Lembang implements integrated, collaborative thematic learning that combines various subjects. This innovation enhances 21st-century capabilities and strengthens the Pancasila Student Profile, while also facilitating student diversity. Increasing Student Creativity: Research by Lilis Setiawan shows that the Project-Based Learning (PBL) approach can enhance student creativity. Students who have high creativity rose from 33.33% to 80.95% after PBL was implemented. Increasing Collaboration Between Teachers: The KOKUI (Collaboration, Creativity, Performance, and Innovation) learning community in Pekalongan Regency is effective in enhancing teachers' professional competence. Through online and offline activities such as webinars, discussions, and workshops, teachers can share good practices and develop innovations. (Sinta et al., 2024)

Creativity and Innovation Collaboration Implementation Strategy, Cross-Disciplinary Project Development: Teachers can design cross-disciplinary projects that combine various subjects, allowing students to see the interconnectedness between the sciences they are learning. The use of technology in learning. The use of technology, such as interactive videos, in making thematic children's songs can increase students' interest and creativity in learning music and the arts. Application of Innovative Learning Models: Learning models such as Role-Playing, Problem-Based Learning, Mind Mapping, Field Trips, and Experiments can foster students' creativity in elementary school. The following is a summary of previous research related to creativity and innovation collaboration in thematic learning, which can serve as a reference for your literature review: "Synergy of Creativity and Innovation in Thematic Learning." (de Sousa et al., 2012)

The research by Evi Fitriyanti (2022) employed a literature review approach to examine seven studies published between 2019 and 2022. The results show that the synergy between creativity and innovation in thematic learning has a positive impact on student learning outcomes and creativity. This approach offers a more engaging learning experience, yielding students who are creative, innovative, and well-prepared for future challenges, increasing Student Creativity through Project-Based Learning (PBL). Setiawan, Wardani, and Permana (2021) conducted a classroom action study to determine the

increase in student learning creativity in thematic learning using the PBL approach. The results showed an increase in students' learning creativity, with the number of students who had high creativity increasing from 33.33% before the action to 80.95% after the action.

Development of Students' Creative Thinking through Integrative Thematic Learning. Sutisna and Rahmawati (2021) examined the influence of integrative thematic learning on students' creative thinking skills. The results of the study showed that integrative thematic learning had a significant effect on students' creative thinking skills, as indicated by a significance value of 0.002, which is less than 0.05. Development of Students' Creative Thinking through Integrative Thematic Learning. Hasanah, Zaqiah, and Heryati (2019) researched the development of students' creative thinking through integrative thematic learning. The results of the study indicate that the integrative thematic learning model can enhance aspects of fluency and originality in students' creative thinking, although it still lacks flexibility and elaboration.

The Application of Creative and innovative learning strategies is analyzed in a research study by Hidayah, Tejawati, and Nurkolis (2020), which examines the implementation of these strategies among 4th-grade students at MI NU Tamrinul Aulad Kudus. The study's results indicate that implementing the plan through the stages of preparation, implementation, and evaluation can enhance the quality of education. Supporting factors include the readiness of students and infrastructure, while inhibiting factors involve changes in teaching methods that require adaptation time.

The above studies demonstrate that collaboration between creativity and innovation in thematic learning can enhance student learning outcomes and foster creativity. Approaches such as Project-Based Learning, integrative thematic learning, and the application of creative and innovative learning strategies have proven to be effective in achieving these goals.

Research methodology

This research is a type of literature review; this means that the information materials used come from library sources, including books, encyclopedias, magazines, journals, newspapers, and others. (Sutrisno Hadi, 1987) The form of this research is descriptive, analytical, and critical. Therefore, the author can provide a comprehensive description of the investigation, Creativity and Innovation Collaboration in Thematic Learning: A Review of the Literature. In this study, the author optimally uses two data sources related to this research, namely. Primary data sources and secondary data sources. The primary sources for this research are books and scientific journals on investigation, Creativity, and Innovation. At the same time, this research is supported (secondary) by other works of thought related to the research results on Collaboration in Thematic Learning. Such research has not existed, so the author must convey this through this article.

Results and discussion

The synergy between creativity and innovation in thematic learning represents a practical approach to enhancing the quality of education, particularly at the primary school level. The combination of the two can create a more engaging, meaningful, and relevant learning experience for students.(Lubis et al., 2020)

The Application of Synergy of Creativity and Innovation in Thematic Learning

Several studies have shown that the application of synergy between creativity and innovation in thematic learning can improve student learning outcomes and creativity. For example, research by Evi Fitriyanti (2022) revealed that this synergy has a positive impact on student learning outcomes and creativity, as well as creating a more meaningful learning experience and producing students who are creative, innovative, and ready to face future challenges.(Ferrari et al., 2009)

Strategies to Increase Student Creativity

Some approaches that can be applied to increase students' creativity in thematic learning include:

Project-Based Learning (PBL) Approach: This approach enables students to learn through real-world projects that integrate various subjects. Research by Setiawan, Wardani, and Permana (2021) indicates that PBL can enhance student creativity, with a notable increase in the number of students exhibiting high creativity, from 33.33% to 80.95% after implementation.

Open-Ended Approach: This approach provides students with the opportunity to explore various solutions to a problem. Research by Bernadi (2017) demonstrates that an open-ended approach can enhance students' creativity, with the percentage of students reaching the creative and highly creative categories increasing from 0% to 75% following implementation.

Integrative Approach: This approach combines various subjects under a single theme, offering a more contextual and well-rounded learning experience. Research by Sutisna and Rahmawati (2021) shows that integrative thematic learning can improve students' creative thinking skills.(Tang et al., 2022)

Practical Implications

To implement the synergy between creativity and innovation in thematic learning, educators need to:

1. **Designing a Creative and Innovative Learning Plan:** The learning plan should include activities that encourage creative exploration, collaboration, and problem-solving.
2. **Utilizing Supportive Media and Technology:** The effective use of media and technology can enhance the learning experience and increase student engagement.
3. **Provide Constructive Feedback:** Constructive feedback can help students understand strengths and areas that need improvement in their learning process.

By applying these approaches, it is hoped that a learning environment can be created that supports the development of students' creativity and innovation in thematic learning.(Cachia et al., 2010)

Innovation in thematic learning is a strategic step to create a fun, relevant, and effective learning experience for students. By integrating various subjects under a single theme, this approach enables students to recognize the interconnectedness between concepts and apply them in a real-world context. Here are some examples of innovations in thematic learning that can be used in the classroom:

Game-Based Learning

Integrating play elements into learning can increase student motivation and engagement. For example, teachers can create interactive quizzes or board games related to the theme being studied. In this way, students not only learn but also feel engaged and motivated to participate.

Problem-Based Learning

This model challenges students to think critically and creatively by addressing real problems related to learning themes. For example, students could be asked to design solutions to address air pollution in their area. This approach encourages exploration and discovery, allowing students to apply theory in a real-world context.

Collaborative Learning

This method encourages students to work together in groups to solve problems, share ideas, and learn from each other. Collaboration can happen both in person in the classroom and through online platforms for interaction between students.

Integration of Technology in Learning

Using technology in thematic learning can increase engagement and interaction. For example, teachers can leverage interactive learning apps, educational videos, or digital presentation tools to enrich students' learning experiences. Technology integration can help students understand concepts more engagingly and innovatively.

Simulation-Based Learning

This method utilizes simulations or virtual models to provide students with an immersive experience. Students can develop skills and knowledge through experimentation, exploration, and interaction with simulations that mimic real-world situations.

Technology-Enhanced Learning

These innovations utilize technology, such as learning software, mobile apps, or online platforms, to present subject matter engagingly and interactively. Technology can help accommodate diverse learning styles outside of the classroom. By implementing these innovations, it is hoped that thematic learning will be more engaging, effective, and tailored to the needs of students in this digital era.

Conclusion

The collaboration between creativity and innovation in learning not only improves students' learning outcomes and creativity but also prepares them to face the challenges of the 21st century. Through proper implementation strategies, such as cross-disciplinary project development, the use of technology, and the implementation of innovative

learning models, education can create engaging and meaningful learning experiences for students.

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