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The Effectiveness of Teaching Writing for Introvert and Extrovert Students Using Project-Based Learning: A Study at the English Department, Teacher Training and Education

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ABSTRACT

This paper examines the effectiveness of teaching writing to introverted and extroverted students through Project-Based Learning (PBL) at the English Department of the Teacher Training and Education Faculty, University of Sultan Ageng Tirtayasa. By employing a mixed-methods approach, the study evaluates the impact of PBL on writing skills, student engagement, and the overall learning experience. Findings indicate that PBL benefits both personality types but in distinct ways, highlighting the importance of accommodating diverse learning styles in writing instruction

Keywords: Writing Skills, Project-Based, Introvert Extrovert, Learning Styles

INTRODUCTION

Writing is an essential skill in language education, playing a pivotal role in students' academic and professional success. However, the learning experience can differ significantly based on individual personality traits, particularly introversion and extroversion. These traits influence students' approaches to learning and engagement in writing tasks, which can affect their overall writing development (Zhang, 2019; Sanguinetti, 2021). This study explores the effectiveness of project-based learning (PBL) as a teaching method tailored to meet the needs of both introvert and extrovert students at the English Department of the Teacher Training and Education Faculty, University of Sultan Ageng Tirtayasa.

Project-based learning has gained recognition for its ability to foster collaboration, creativity, and critical thinking, all of which are vital in enhancing writing skills (Bell, 2010). However, the dynamics of introverted and extroverted students in collaborative settings can lead to different outcomes in writing proficiency. Introverts may thrive in environments that allow for independent reflection and deeper engagement, while extroverts may excel in interactive and dynamic group settings (Furnham & Chamorro-Premuzic, 2004). This study aims to investigate how PBL can be effectively adapted to support the writing development of both personality types.

Utilizing a mixed-methods approach, this research will assess students' attitudes toward writing, their engagement levels in PBL activities, and the overall effectiveness of this approach in enhancing writing skills. By focusing on the diverse experiences of introverted and extroverted learners, this study seeks to provide insights into inclusive teaching practices that cater to a wide range of students, ultimately aiming to improve writing instruction in higher education contexts.

Personality traits play a significant role in shaping how individuals engage with and respond to different learning environments. Among the most influential traits are introversion and extroversion, dimensions of personality that describe how individuals gain and manage energy (Jung, 1921; Eysenck, 1967). Understanding these traits can offer valuable insights for educators, helping them tailor approaches that align with diverse learning needs.

Introversion describes individuals who are generally more reflective and gain energy from solitude. Introverted learners often prefer quiet, less stimulating environments where they can focus deeply on tasks, as they may feel drained by prolonged social interaction (Cain, 2012). This trait is associated with a preference for independent work and internal reflection, which can help introverts excel in activities that require careful planning, concentration, and attention to detail (Jung, 1921).

Extroversion, on the other hand, is characterized by a preference for social engagement and external stimulation. Extroverted learners often feel energized by group activities, discussions, and hands-on learning experiences. This social orientation can make extroverts more inclined toward collaborative and dynamic learning environments, where they can interact with others and benefit from shared knowledge (Eysenck, 1967; Lucas & Diener, 2001).

Both introversion and extroversion contribute positively to learning by fostering unique strengths. Introverts bring a thoughtful, detail-oriented perspective, while extroverts often add enthusiasm and collaborative energy. Recognizing and valuing these traits in educational settings can help create inclusive environments that cater to a diverse range of learners.

a. **Importance of Understanding Personality Traits in Educational Contexts,
Particularly in Writing**

Understanding personality traits, especially introversion and extroversion, is crucial in educational settings, as these traits influence students' preferred learning environments, interaction styles, and approaches to tasks. In writing, where personal expression, thought organization, and communication are key, tailoring instruction to these traits can significantly enhance both engagement and outcomes.

For **introverted students**, writing can be an effective outlet for personal expression, as they often excel in reflective tasks that allow them to think deeply and structure their thoughts privately. These learners may benefit from assignments that encourage individual analysis, introspection, and written reflection rather than spontaneous discussion. Structured, quiet environments that allow for focused attention often foster a sense of security and creativity in introverts, enabling them to produce well-developed written work (Cain, 2012).

Extroverted students, by contrast, may prefer collaborative or interactive approaches to writing, as they tend to gain energy from discussing ideas and getting immediate feedback. In a classroom setting, these students might benefit from peer review sessions, group brainstorming, or discussion-based approaches that allow them to explore ideas aloud before committing to written work. Extroverts may thrive in assignments that involve presentations or group projects, where they can actively engage with peers as they develop their thoughts.

Understanding these traits allows educators to create a balanced writing curriculum that includes opportunities for both introspection and collaboration, catering to the strengths of introverted and extroverted students alike. This approach can enhance motivation, boost confidence, and encourage self-expression in writing for all students, regardless of personality type.

Project-Based Learning (PBL) Overview

a. Definition and principles of project-based learning.

Project-Based Learning (PBL) is an instructional strategy focused on student-centered inquiry and real-world applications. Unlike traditional teaching methods, where knowledge is delivered passively, PBL requires students to actively engage in projects that pose complex questions or challenges, fostering a deeper understanding of content and development of practical skills (Thomas, 2000). Research highlights that PBL enhances critical thinking, collaboration, and creativity, essential skills in the 21st century (Krajcik & Blumenfeld, 2006).

The PBL approach is grounded in constructivist theories, particularly the work of Jean Piaget and Lev Vygotsky, emphasizing that students learn best when they construct knowledge through experience (Larmer, Mergendoller, & Boss, 2015). For example, when students work on a project investigating environmental impacts of waste, they do more than memorize facts—they apply and test their understanding through research, collaboration, and

presentations (Bell, 2010). This experiential learning process also allows students to learn iteratively, reflecting on feedback and revising their work.

According to the Buck Institute for Education (BIE), high-quality PBL is driven by essential project design elements: a challenging problem or question, sustained inquiry, authenticity, student voice and choice, reflection, critique and revision, and a public product (Larmer et al., 2015). These elements collectively create a structure for inquiry and promote skills like problem-solving and collaboration that are relevant in academic and real-world contexts.

- b. **Benefits of PBL in fostering collaboration, creativity, and critical thinking skills.**
Project-Based Learning (PBL) offers a dynamic learning framework that actively develops essential skills like collaboration, creativity, and critical thinking. These skills are increasingly valued in both academic and career settings, making PBL particularly relevant for modern education.

Collaboration

PBL inherently requires teamwork, as students work together to solve complex problems, make decisions, and manage project tasks. By collaborating, students practice interpersonal skills such as communication, conflict resolution, and collective problem-solving. Research shows that such collaborative tasks in PBL build social and emotional learning skills, as students learn to balance diverse perspectives and roles (Krajcik & Blumenfeld, 2006). This teamwork not only strengthens understanding of content but also mirrors real-life professional environments, preparing students for future collaborative work.

Creativity

In PBL, students often explore topics and questions that encourage them to think creatively. The open-ended nature of projects allows students to experiment with ideas, test solutions, and take intellectual risks, fostering creative problem-solving. Since PBL emphasizes student choice, learners have the freedom to approach problems in unique ways, helping them become more innovative thinkers. According to Bell (2010), this exploration stimulates creativity by pushing students to apply knowledge in novel contexts, adapt to challenges, and develop original solutions.

Critical Thinking

PBL requires students to engage in sustained inquiry and solve challenging problems, which helps deepen critical thinking skills. As they conduct research, analyze information, and evaluate sources, students practice making evidence-based judgments and refining their understanding. Through reflection and iteration, they also learn to assess the quality of their work and make improvements based on feedback, reinforcing critical thinking as an active process (Thomas, 2000). This iterative approach encourages students to view learning as an ongoing process, where complex questions require continuous thought and revision.

Overall, the benefits of PBL are significant in fostering a well-rounded skill set. By engaging students in collaborative, creative, and critical inquiry, PBL helps them develop skills that are fundamental to success in a rapidly changing world.

2. Rationale for the Study

a. Importance of accommodating different learning styles in writing instruction. Writing is a vital skill that supports academic success, professional growth, and self-expression. However, teaching writing can be challenging, as students come with different ways of learning and processing information. By understanding and incorporating diverse learning styles into writing instruction, teachers can enhance students' engagement, comprehension, and skill mastery. Theories such as Gardner's Multiple Intelligences, Kolb's Experiential Learning, the VARK model, and Constructivist Learning Theory offer valuable insights into how educators can address varied learning preferences in writing instruction.

Understanding Learning Styles in Writing Instruction

Learning styles refer to the preferred ways in which individuals absorb, process, and retain information. A student might excel with a hands-on approach, while another thrives in a highly structured, reflective environment. When educators consider these styles in writing instruction, they create a more inclusive learning experience that acknowledges each student's unique strengths and challenges.

Tailoring instruction to individual learning preferences doesn't imply a complete transformation of teaching methods; rather, it means incorporating a range of approaches that allow students to interact with writing in ways that feel natural and intuitive to them. This approach increases motivation and helps students see writing as a skill they can develop through varied, meaningful methods.

Theoretical Foundations for Accommodating Learning Styles

Different learning theories provide frameworks for understanding and addressing these varied styles in writing instruction. Let's explore four key theories that underscore the importance of adapting to individual learning needs.

1. Gardner's Theory of Multiple Intelligences

Howard Gardner's Multiple Intelligences theory posits that intelligence is multi-dimensional and that people possess different "intelligences" beyond just linguistic and mathematical. Gardner's framework identifies multiple types, such as linguistic, spatial, interpersonal, and kinaesthetic intelligences, each representing a unique way in which students may best understand and approach learning tasks, including writing.

In writing instruction, this theory suggests that using a variety of activities, like discussions for interpersonal learners, visual aids for spatial learners, and reflective journaling for intrapersonal learners, can engage students more deeply. For instance, a student with strong spatial intelligence might benefit from mind mapping as a pre-writing strategy, while a linguistically intelligent student may prefer word-based exercises like brainstorming lists.

By tapping into students' dominant intelligences, instructors can create an environment where each student feels their strengths are acknowledged, which fosters engagement and a sense of accomplishment in writing.

- b. The gap in research regarding the effectiveness of PBL for introverted versus extroverted students.

While substantial research supports the general effectiveness of PBL, few studies examine how students' personality traits affect their experiences and outcomes in PBL settings. The gap in research can be outlined in several key areas:

1. Student Engagement and Comfort

PBL typically requires students to work in teams, engage in discussions, and actively share ideas—activities that may be inherently more comfortable for extroverted students. For introverted students, however, this environment may feel overwhelming, potentially impacting their comfort, participation, and engagement. Studies examining how introverted students adapt to or struggle within the PBL framework are limited, leaving unanswered questions about whether PBL truly supports diverse learners in a balanced way.

2. Learning Outcomes and Academic Performance

While PBL has been shown to improve critical thinking and problem-solving skills, it is unclear if these benefits are equally accessible to both introverted and extroverted students. Given that introverts may struggle with the collaborative demands of PBL, their learning outcomes may differ from those of extroverted students. Research into how personality traits might impact academic performance in PBL settings is sparse, and thus, little is known about whether the PBL approach needs adjustments to provide equitable learning opportunities.

3. Group Dynamics and Participation

Personality differences can also affect group dynamics, which are central to the success of PBL. Extroverts may naturally take on leadership roles, participate actively, and contribute ideas readily, whereas introverts may prefer to take on more background roles or avoid participation altogether. This discrepancy can lead to imbalanced group contributions, with extroverts dominating discussions and decision-making processes. However, studies examining how introverted and extroverted students interact within PBL groups—and how these interactions impact group outcomes—are lacking.

4. Social and Emotional Outcomes

PBL is designed not only to enhance academic learning but also to foster social skills, collaboration, and communication abilities. However, the emotional toll of continuous social interaction and teamwork may be more challenging for introverted students. Research exploring the social and emotional outcomes of PBL for students with varying personality traits is limited, creating an incomplete picture of PBL's impact on student well-being and self-confidence.

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