



The Role of Formative Assessment in Enhancing Biology Learning: Evidence from Secondary Schools in Dar es Salaam City Council, Tanzania

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ABSTRACT: This study investigates the role of formative assessment in enhancing student learning outcomes in Biology, focusing on selected secondary schools in Dar es Salaam City Council, Tanzania. Drawing on Constructivist Theory and the self-regulated learning framework, the study employed a mixed-methods approach with a descriptive design. Data were collected from 156 participants, including teachers, students, and head teachers, using structured questionnaires, interviews, and classroom observations. Regression analysis revealed that teacher-student oral discussions were a significant predictor of student performance ($\beta=0.67, p<0.01$), demonstrating their critical role in fostering conceptual understanding and critical thinking. Teacher observations and group projects also emerged as effective formative practices, enabling the identification of learning gaps and fostering collaborative problem-solving skills. Despite these benefits, the study identified systemic barriers, including large class sizes, inadequate teacher training, and resource constraints, which hinder the widespread implementation of formative assessment. These findings emphasize the need for systemic reforms, including professional development for teachers, curriculum integration of formative practices, and resource allocation to support interactive and feedback-driven learning. The study concludes that formative assessment significantly enhances Biology learning outcomes and provides actionable recommendations to address the structural challenges limiting its adoption in Tanzanian secondary schools.

KEY WORDS: Formative Assessment, Biology Learning, Secondary Schools, Diagnostic Assessment, Tanzania.

1. INTRODUCTION

Assessment is an integral component of education, acting as a diagnostic and evaluative tool to ensure that teaching strategies align with curriculum goals and student needs. Among assessment types, formative assessment has emerged as a transformative practice, characterized by its integration into the learning process to provide real-time feedback that informs both teaching and learning (Black & Wiliam, 2009). Unlike summative assessments, which measure student performance at the conclusion of an instructional period, formative assessment facilitates a continuous dialogue between teachers and students, helping to identify learning gaps and offering immediate interventions to address them (Hattie & Timperley, 2007).

Globally, formative assessment has demonstrated its potential to enhance learning outcomes across disciplines. For instance, research in U.S. high schools shows that strategies such as think-pair-share activities, classroom discussions, and scaffolded questioning significantly improve student engagement and performance in science subjects (Brink & Bartz, 2017). Similarly, Xiao and Yang (2019) in China reported that peer feedback and self-assessment practices foster self-regulated learning, critical thinking, and collaboration among students.

Despite its proven efficacy, the implementation of formative assessment in Tanzanian secondary schools remains limited. The education system is heavily reliant on summative evaluations, which emphasize rote learning and memorization over critical thinking and conceptual understanding (Ndalichako, 2017). This traditional approach is particularly detrimental in subjects like Biology, where practical application and inquiry-based learning are essential. Studies by Osaki (2004) and Senjiro and Lupeja (2023) highlight systemic barriers to formative assessment in Tanzania, including large class sizes, insufficient teacher training, and a lack of resources and assessment tools. These challenges constrain teachers' ability to implement interactive and feedback-driven practices that support deeper learning.

Biology education, in particular, requires innovative assessment practices that encourage inquiry, experimentation, and critical thinking. Formative assessment practices such as group projects, oral discussions, and real-time teacher observations align well with these goals by fostering active learning and collaboration. However, their integration into Tanzanian classrooms is hampered

by systemic challenges, leaving students to rely on surface-level memorization rather than engaging in meaningful learning experiences.

This study aims to address these gaps by investigating how formative assessment practices influence the learning of Biology in secondary schools in Dar es Salaam City Council. Specifically, the study examines how oral discussions, teacher observations, and group projects enhance student engagement, critical thinking, and understanding. The research objectives are as follows: to explore the influence of teacher-student oral discussions on Biology learning, to assess the role of teacher observations in identifying and addressing student learning gaps, and to examine the impact of group projects on fostering collaborative and active learning.

2. LITERATURE REVIEW

Theoretical Background

Formative assessment is deeply embedded in educational theories, particularly Constructivist Theory, which emphasizes the active role of learners in constructing knowledge through meaningful engagement and interaction (Vygotsky, 1978; Piaget, 1952). Constructivist principles align with formative assessment as both prioritize reflection, scaffolding, and active participation. Vygotsky's Zone of Proximal Development (ZPD) underscores the importance of scaffolding, where teachers provide targeted support to bridge the gap between students' current abilities and their potential performance. Formative assessment practices, such as real-time feedback, guided questioning, and collaborative learning, exemplify this scaffolding process (Shabani et al., 2010).

Hattie and Timperley's (2007) feedback model further highlights the centrality of feedback in formative assessment. According to their framework, effective feedback addresses three critical questions: Where am I going? How am I doing? What do I need to do next? This iterative process encourages self-regulation and goal-setting, which are essential components of formative assessment. By helping students understand their progress and identify areas for improvement, feedback facilitates deeper engagement and learning.

Self-regulated learning theory complements these insights by emphasizing the role of metacognition, motivation, and behavior in formative assessment. Andrade (2010) and Zimmerman (2002) argue that formative practices empower students to monitor their learning, set goals, and adopt effective strategies. This theory reinforces the notion that formative assessment is not just a tool for evaluation but a process for fostering autonomy and active engagement.

Empirical Review

Globally, research highlights the transformative potential of formative assessment in enhancing learning outcomes across diverse contexts. For instance, Brink and Bartz (2017) in the United States demonstrated that formative assessment strategies such as peer feedback, think-pair-share activities, and scaffolded questioning significantly improved student engagement and critical thinking in science classrooms. Similarly, Xiao and Yang (2019) in China observed that self-assessment and teacher feedback practices fostered self-regulation and enhanced comprehension in STEM disciplines.

In Sub-Saharan Africa, the adoption of formative assessment has shown mixed results. Ndalichako (2017) and Osaki (2004) in Tanzania reported that while teachers recognize the potential benefits of formative assessment, its implementation is constrained by systemic barriers such as large class sizes, lack of teacher training, and limited resources. For example, teachers often rely on summative evaluations, which prioritize rote memorization over conceptual understanding. These challenges are further compounded by the lack of alignment between curriculum frameworks and formative assessment practices, as noted by Senjiro and Lupeja (2023).

Biology education provides a unique context for examining the role of formative assessment. Adongo et al. (2020) in Kenya found that group projects, oral discussions, and scaffolded questioning significantly improved students' understanding of biological processes. These practices allowed students to engage with complex concepts collaboratively, fostering critical thinking and problem-solving skills. However, the study also identified barriers such as inadequate resources, insufficient teacher expertise, and misaligned policy frameworks, which limited the scalability of these practices.

In Tanzania, formative assessment remains underutilized in Biology classrooms, where summative evaluations dominate. Research by Ndalichako (2017) revealed that teachers often lack the pedagogical skills and resources needed to implement formative practices effectively. This gap underscores the need for systemic reforms to integrate formative assessment into national education policies and provide teachers with the necessary support and training.

3. METHODOLOGY

The study adopted a descriptive research design under a mixed-methods framework, combining quantitative and qualitative approaches to provide a comprehensive understanding of formative assessment practices in Biology classrooms. The research was conducted in Dar es Salaam City Council, targeting secondary school teachers, head teachers, and students. A total of 156 participants were selected using purposive and simple random sampling techniques to ensure diverse representation.

Data collection methods included structured questionnaires, semi-structured interviews, and classroom observations. The questionnaires captured quantitative data on the frequency and effectiveness of formative assessment practices, while interviews provided in-depth insights into teachers' and students' experiences. Classroom observations allowed the researcher to document real-time implementation of formative assessment strategies. Quantitative data were analyzed using descriptive and inferential statistics, focusing on frequencies, percentages, and correlations between formative assessment practices and learning outcomes. Qualitative data were analyzed thematically, identifying recurring patterns and insights related to the challenges and benefits of formative assessment. This triangulation of data sources ensured the reliability and validity of the findings.

4. FINDINGS AND DISCUSSIONS

The Influence of Teacher-Student Oral Discussions on Biology Learning

The study analyzed the influence of teacher-student oral discussions on Biology learning using regression analysis to quantify the impact. A regression model was developed to predict student performance based on their participation in teacher-student discussions. The results indicated that oral discussions were a significant predictor of student performance, with a regression coefficient ($\beta=0.67, p<0.01$ \beta = 0.67, p < 0.01). This suggests that for every unit increase in participation in discussions, student performance improved by 0.67 points on a standardized test measuring conceptual understanding in Biology. Teachers highlighted that oral discussions encouraged students to actively engage with complex topics such as genetics and ecological interactions. For example, 76% of teachers reported that students who participated in discussions demonstrated better understanding and retention of biological concepts compared to their peers who did not. Students echoed these sentiments, with 82% agreeing that discussions helped clarify their doubts and enhance their comprehension. One student remarked, "When we debated the pros and cons of genetic engineering, I realized how interconnected biological concepts are with real-life applications." However, challenges were noted in implementing oral discussions effectively. Teachers in overcrowded classrooms reported difficulties in ensuring equal participation among students. Additionally, time constraints often limited the depth of discussions, particularly in schools with rigid schedules. These barriers were more pronounced in under-resourced schools, where inadequate classroom space and seating arrangements hindered interaction.

The results align with Vygotsky's Zone of Proximal Development (ZPD), as oral discussions provide scaffolding that helps students move beyond their current cognitive capabilities through guided interaction (Vygotsky, 1978). These findings are consistent with Brink and Bartz's (2017) research, which showed that classroom discussions significantly improve critical thinking and problem-solving skills in science subjects. The regression results further reinforce the empirical evidence that oral discussions have a measurable positive impact on learning outcomes.

However, systemic challenges such as large class sizes and limited resources limit the scalability of these benefits. These findings mirror observations by Senjiro and Lupeja (2023), who identified similar constraints in Tanzanian classrooms. Addressing these barriers requires systemic reforms, including reducing teacher-student ratios and providing professional development to equip educators with strategies for managing interactive classrooms effectively.

The Role of Teacher Observations in Monitoring and Improving Student Progress

Teacher observations emerged as a critical component of formative assessment, enabling educators to diagnose learning gaps and provide tailored support. Approximately 68% of teachers emphasized that regular observations helped them identify students struggling with specific concepts, such as photosynthesis and nutrient cycles. These observations informed targeted interventions, such as additional practice exercises, small group tutorials, and one-on-one feedback sessions.

Teachers described using observational data to refine their instructional strategies. For instance, one teacher noted that by observing students' participation in a practical lab session on osmosis, they identified misconceptions about diffusion and addressed them in subsequent lessons. Similarly, another teacher reported using classroom observations to assess group dynamics during collaborative projects, ensuring equitable participation and resolving conflicts.

However, systemic constraints limited the effectiveness of teacher observations. In schools with large class sizes, teachers struggled to observe individual students closely. Additionally, the lack of training on effective observational techniques meant that some teachers relied on superficial assessments rather than deeper diagnostic evaluations.

Teacher observations align with Hattie and Timperley's (2007) feedback model, particularly the question, "How am I doing?" Observational practices provide real-time insights into student progress, enabling teachers to adapt their instruction and address misconceptions promptly. These findings also support Ndalichako's (2017) research, which highlighted the importance of formative feedback in improving learning outcomes.

The challenges reported—particularly those related to large class sizes—underscore the systemic barriers to effective formative assessment. These issues are consistent with findings by Adongo et al. (2020), who noted similar constraints in Kenyan classrooms. Addressing these challenges requires investment in teacher training, particularly on observational techniques, and systemic reforms to reduce class sizes and provide additional support for differentiated instruction.

The Role of Group Projects in Fostering Collaborative and Active Learning

Group projects were found to be highly effective in promoting collaboration, critical thinking, and active learning. Teachers observed that students working in groups demonstrated greater creativity, problem-solving skills, and engagement with complex biological concepts. Approximately 72% of teachers reported significant improvements in these areas among students who participated in group projects. For example, a project on modeling sustainable ecosystems required students to apply ecological principles to design and present viable models. This activity not only deepened their understanding of ecological interactions but also encouraged teamwork and peer learning.

Students expressed that group projects provided opportunities to apply theoretical concepts in practical contexts. One student remarked, “When we worked on the food web project, I finally understood how energy flows through an ecosystem. It was easier to see the connections when we created the model together.” However, teachers noted that the success of group projects depended on access to resources such as laboratory equipment, textbooks, and visual aids. In resource-constrained schools, these limitations hindered the effectiveness of collaborative activities.

The findings align with Constructivist Theory, particularly the emphasis on active engagement and peer interaction in constructing knowledge. Group projects facilitate collaborative learning, enabling students to integrate diverse perspectives and apply theoretical concepts to real-world scenarios. These results are consistent with Adongo et al.’s (2020) findings, which highlighted the value of group projects in fostering critical thinking and practical application in Biology education. However, systemic barriers such as inadequate resources and teacher expertise limit the scalability of these practices. Addressing these challenges requires targeted interventions, including resource allocation and professional development programs to equip teachers with the skills needed to facilitate effective group work.

The findings collectively highlight the potential of formative assessment practices—oral discussions, teacher observations, and group projects—to transform Biology learning in Tanzanian secondary schools. Oral discussions emerged as a significant predictor of student performance ($\beta=0.67, p<0.01$), reinforcing the importance of interactive learning in fostering critical thinking and comprehension. These results align with Constructivist principles, emphasizing the role of scaffolding and active participation in constructing knowledge (Piaget, 1952; Vygotsky, 1978).

Teacher observations provided real-time insights into student progress, enabling targeted interventions to address learning gaps. This aligns with Hattie and Timperley’s (2007) feedback model, which underscores the importance of diagnostic feedback in improving learning outcomes. Similarly, group projects fostered collaboration, creativity, and problem-solving skills, consistent with Adongo et al.’s (2020) findings in Kenyan classrooms.

Despite these successes, systemic barriers such as large class sizes, inadequate teacher training, and limited resources constrain the effective implementation of formative assessment practices. These challenges are well-documented in existing literature. For instance, Ndalichako (2017) and Osaki (2004) highlighted the dominance of summative evaluations in Tanzanian classrooms, which prioritize rote memorization over interactive learning. This misalignment with formative principles limits the scope for innovation in teaching and learning.

From a theoretical perspective, the findings underscore the relevance of Constructivist Theory and the self-regulated learning framework in shaping formative assessment practices. Oral discussions and group projects, in particular, align with Vygotsky’s ZPD by providing students with opportunities to engage in guided learning and peer collaboration. Empirically, the regression results provide robust evidence of the effectiveness of these practices, contributing to the growing body of literature on formative assessment in low-resource settings.

Policy implications of these findings are significant. Addressing systemic barriers requires targeted interventions, including professional development for teachers, curriculum reforms to integrate formative assessment, and resource allocation to support interactive learning. By addressing these challenges, educators and policymakers can create an enabling environment for formative assessment, ensuring that Tanzanian students have access to quality education that fosters critical thinking, collaboration, and academic success.

5. THEORETICAL AND EMPIRICAL IMPLICATIONS OF THE STUDY’ FINDINGS

The findings of this study affirm the relevance and applicability of **Constructivist Theory** in the context of formative assessment in secondary education. By demonstrating how oral discussions, teacher observations, and group projects foster active engagement, critical thinking, and collaboration, the study reinforces Vygotsky’s (1978) concept of the Zone of Proximal Development (ZPD). These practices act as scaffolding, enabling students to progress from dependent learning to higher levels of cognitive autonomy. For example, oral discussions provided students with guided opportunities to explore complex biological concepts such as genetic engineering, aligning with the constructivist emphasis on learning as an active and social process.

Additionally, the study underscores the importance of feedback as articulated by Hattie and Timperley’s (2007) model, which emphasizes diagnostic feedback as a tool for fostering self-regulation and goal-setting. Teacher observations, as documented in the findings, provided real-time insights into student progress, enabling targeted interventions that addressed learning gaps. This

process exemplifies the iterative nature of effective formative assessment, where continuous feedback informs teaching and learning practices.

The study also contributes to the self-regulated learning framework by highlighting how formative assessment empowers students to take ownership of their learning. Group projects, in particular, encouraged students to monitor their progress, evaluate peer contributions, and reflect on their collaborative processes. This aligns with Andrade (2010) and Sadler (2013), who emphasize the role of formative assessment in promoting autonomy and metacognitive skills.

Empirically, the study provides robust evidence of the effectiveness of formative assessment in improving learning outcomes in Biology, particularly in resource-constrained settings like Tanzania. The regression analysis revealed a significant positive influence of oral discussions on student performance ($\beta=0.67, p<0.01$), offering quantitative validation of their impact. These findings contribute to the growing body of literature that emphasizes the value of interactive and feedback-driven practices in STEM education (Brink & Bartz, 2017; Xiao & Yang, 2019).

The study also highlights the systemic barriers that limit the implementation of formative assessment, such as large class sizes, inadequate teacher training, and insufficient resources. These challenges are consistent with prior research by Ndalichako (2017) and Adongo et al. (2020), who noted similar constraints in Tanzanian and Kenyan classrooms, respectively. By identifying these barriers, the study provides actionable insights for addressing structural challenges and fostering a more supportive environment for formative assessment.

In the broader context, the findings underscore the importance of integrating formative assessment into national education policies. Aligning curriculum frameworks with formative principles can help shift the focus from high-stakes summative evaluations to continuous learning processes. Moreover, professional development programs tailored to equip teachers with the skills and tools needed for effective formative assessment are essential for scaling these practices in low-resource settings.

6. CONCLUSION AND RECOMMENDATIONS

This study concludes that formative assessment significantly enhances student learning outcomes in Biology by fostering critical thinking, collaboration, and active engagement. Through practices such as oral discussions, teacher observations, and group projects, students are provided with opportunities to reflect on their understanding, clarify misconceptions, and apply theoretical concepts to practical contexts. These practices align with Constructivist Theory, emphasizing scaffolding and interactive learning, and with self-regulated learning frameworks that promote metacognition and autonomy.

The study's findings highlight that oral discussions are particularly effective in fostering conceptual understanding and critical analysis, as evidenced by their statistically significant impact on student performance. Teacher observations play a pivotal role in diagnosing learning gaps and tailoring instruction to individual student needs, while group projects encourage peer interaction and collaborative problem-solving. These practices collectively underscore the potential of formative assessment to transform Biology education, particularly in fostering skills that are essential for 21st-century competencies.

Despite these positive outcomes, the study identifies systemic barriers that hinder the effective implementation of formative assessment in Tanzanian secondary schools. Large class sizes, insufficient teacher training, and inadequate resources are critical challenges that limit the scalability and sustainability of these practices. These barriers are compounded by curriculum frameworks that prioritize summative evaluations over continuous learning processes, creating a misalignment between policy and practice. Addressing these challenges is essential for leveraging the full potential of formative assessment to enhance educational outcomes.

To overcome these challenges, this study recommends a multifaceted approach that includes professional development for teachers, curriculum integration, and systemic reforms. Comprehensive in-service training programs are needed to equip teachers with the skills and knowledge required to design and implement formative assessment practices effectively. These programs should focus on strategies such as guided questioning, feedback techniques, and managing collaborative learning activities. Additionally, formative assessment practices must be explicitly integrated into the national curriculum, with clear guidelines and benchmarks to ensure consistency in implementation across schools. Aligning examination frameworks to emphasize continuous learning rather than high-stakes summative assessments is crucial for fostering a culture of formative evaluation.

Resource allocation is another critical area of intervention. Schools must receive adequate funding to support formative assessment practices, including the provision of teaching aids, laboratory equipment, and digital tools that facilitate interactive learning. Policymakers should prioritize reducing teacher-student ratios to enable more individualized attention and effective implementation of formative strategies. Furthermore, engaging communities and parents in the educational process can help bridge resource gaps and foster a supportive learning environment. Schools should organize workshops to educate parents about their roles in supporting their children's education while collaborating with local organizations to supplement resources.

Monitoring and evaluation are essential for sustaining these interventions. A robust framework should be established to assess the effectiveness of formative assessment practices, focusing on indicators such as student performance, teacher engagement, and resource utilization. Continuous feedback from these evaluations can inform policy adjustments and resource allocation decisions, ensuring that formative assessment practices remain relevant and effective in addressing evolving educational needs.

By addressing these recommendations, stakeholders can create an enabling environment for formative assessment that enhances student learning outcomes and prepares them for future challenges. This approach not only addresses immediate challenges in Biology education but also contributes to the broader goal of equitable and inclusive education, fostering critical thinking, collaboration, and lifelong learning among Tanzanian students.

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