



East African Journal of Education Studies

eajes.eanso.org

Volume 8, Issue 3, 2025

Print ISSN: 2707-3939 | Online ISSN: 2707-3947

Title DOI: <https://doi.org/10.37284/2707-3947>

ENSO
EAST AFRICAN
NATURE &
SCIENCE
ORGANIZATION

Original Article

Enhancing Academic Performance through Effective Assessment Practices: An Integrative Literature Review of Secondary Education in Gomba District, Uganda

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Article DOI: <https://doi.org/10.37284/eajes.8.3.3698>

Date Published: ABSTRACT

24 September 2025

Keywords:

Assessment Practices,
Academic
Performance,
Formative Assessment,
Teacher Competence,
Secondary Education,
Uganda,
Gomba District.

This integrative review explores the relationship between assessment practices (AP) and students' academic performance at the Uganda Certificate of Education (UCE) level in secondary schools, with a specific focus on Gomba District, Uganda. The review synthesises theoretical, empirical, and contextual literature to critically examine the extent, nature, and impact of assessment strategies employed by teachers. Drawing on behaviourist theories such as Skinner's Operant Conditioning and the Continuous Assessment Accountability Model, the paper highlights how formative and summative assessments influence learner outcomes. Using an integrative approach, the review collates literature from both national and international sources, examining the interplay between teacher knowledge, assessment design, and student engagement. Findings reveal a significant gap between policy and practice, with a dominance of summative assessments and limited feedback mechanisms hindering learning. The review recommends investment in teacher assessment literacy, policy alignment, and inclusive, formative assessment tools as means to enhance academic achievement. This paper contributes to educational research by offering a context-specific synthesis that informs policy and pedagogical reforms aimed at improving academic outcomes in under-resourced rural districts.

APA CITATION

Kibaya, E., Sekandi, H. & Ssekamwa, J. C. (2025). Enhancing Academic Performance through Effective Assessment Practices: An Integrative Literature Review of Secondary Education in Gomba District, Uganda. *East African Journal of Education Studies*, 8(3), 656-665. <https://doi.org/10.37284/eajes.8.3.3698>

CHICAGO CITATION

Kibaya, Edward, Herbert Sekandi and John Cristome Ssekamwa. 2025. "Enhancing Academic Performance through Effective Assessment Practices: An Integrative Literature Review of Secondary Education in Gomba District, Uganda." *East African Journal of Education Studies* 8 (3), 656-665. <https://doi.org/10.37284/eajes.8.3.3698>.

HARVARD CITATION

Kibaya, E., Sekandi, H. & Ssekamwa, J. C. (2025), "Enhancing Academic Performance through Effective Assessment Practices: An Integrative Literature Review of Secondary Education in Gomba District, Uganda", *East African Journal of Education Studies*, 8(3), pp. 656-665. doi: 10.37284/eajes.8.3.3698.

IEEE CITATION

E., Kibaya, H., Sekandi & J. C., Ssekamwa "Enhancing Academic Performance through Effective Assessment Practices: An Integrative Literature Review of Secondary Education in Gomba District, Uganda", *EAJES*, vol. 8, no. 3, pp. 656-665, Sep. 2025.

MLA CITATION

Kibaya, Edward, Herbert Sekandi & John Cristome Ssekamwa "Enhancing Academic Performance through Effective Assessment Practices: An Integrative Literature Review of Secondary Education in Gomba District, Uganda". *East African Journal of Education Studies*, Vol. 8, no. 3, Sep. 2025, pp. 656-665, doi:10.37284/eajes.8.3.3698.

INTRODUCTION

Globally, assessment practices have become central to education systems seeking to improve learning outcomes and ensure accountability. Effective assessment is no longer viewed solely as a tool for ranking learners but also as a mechanism for enhancing instruction and supporting learner progress. The OECD (2020) emphasises that formative assessment, in particular, promotes learner engagement and enables timely intervention by educators. In high-performing systems like Singapore and South Korea, continuous assessment has been integrated into the curriculum, reinforcing student competencies while fostering equitable academic success (Wang, 2019). Research from UNESCO (2022) and Lee (2020) further confirms that countries with robust assessment frameworks experience improved teaching practices, increased learner motivation, and stronger academic outcomes. These developments underscore a global shift toward assessment for learning, rather than assessment of learning.

In Sub-Saharan Africa, however, the implementation of effective assessment practices remains limited. Many education systems in the region continue to rely heavily on summative examinations as the primary determinant of academic success. This has led to a culture of "teaching to the test," with minimal integration of diagnostic or formative approaches (Adu-Gyamfi & Abakah, 2021; Kozan & Richardson, 2020). Countries such as Kenya and Tanzania have experimented with continuous assessment reforms, but challenges such as inadequate teacher training, limited resources, and large class sizes hinder full implementation (Mwangi & Njuguna, 2021;

NECTA, 2005). Consequently, learners often receive minimal feedback and limited opportunities for reflective learning. Despite the regional push for competency-based education, the dominant assessment culture remains certification-focused, and formative practices are either undervalued or inconsistently applied.

In Uganda, the challenge is more pronounced, particularly in under-resourced rural districts like Gomba. Despite national policy reforms and the adoption of a competence-based lower secondary curriculum, assessment in Ugandan schools remains largely summative and examination-driven. Teachers frequently administer weekly and end-of-term tests focused on recall and rote memorisation, neglecting formative tools such as classroom projects, oral assessments, and learner self-reflection (Kibaya, 2025; Tumusiime et al., 2023). National performance data reinforces this concern: in 2019, only 8.4% of UCE candidates in Gomba attained Division 1, while over 50% scored Division 4 or failed altogether (UNEB, 2019). This persistent underperformance raises concerns about the quality and effectiveness of classroom-based assessment. Compounding the problem is the low level of assessment literacy among teachers, many of whom lack the training and support to implement modern, learner-centred evaluation methods (Mutua & Onyango, 2021; Wood & Doğan, 2024).

The theoretical foundation of this review draws on Skinner's Operant Conditioning Theory, which posits that behaviour, including academic engagement, can be shaped through reinforcement (Skinner, 1950). In education, well-structured assessments act as positive reinforcements that encourage desirable learning behaviours.

Complementing this is the Continuous Assessment Accountability Model (Ehiamentolor, 1977; cited in Ipaye, 1982), which emphasises the importance of ongoing, structured assessment interactions between teachers and learners. Together, these frameworks highlight the role of assessment as both a behavioural motivator and an instructional guide. This integrative literature review critically examines how assessment practices influence academic performance among secondary school students in Gomba District, Uganda. It argues that despite policy-level reforms, the limited use of formative assessment, combined with low teacher assessment literacy, has hindered the potential of classroom assessment to improve learner outcomes. Addressing this gap requires a reorientation of assessment culture, grounded in both theory and contextual realities, to promote academic excellence in Uganda's secondary education system.

METHODOLOGY

This literature review employed an integrative review methodology, a comprehensive approach that allows the inclusion of diverse types of evidence, such as quantitative, qualitative, theoretical, and policy-based studies, to generate a holistic understanding of the relationship between assessment practices and academic performance. The integrative approach is particularly appropriate for complex educational topics such as assessment, where knowledge is drawn from a wide range of empirical studies, conceptual discussions, and practical frameworks. It enables critical synthesis of heterogeneous literature, helps identify gaps, and supports evidence-informed recommendations relevant to both policy and classroom practice. This methodology aligns with the review's objective of examining both the theoretical foundations and contextual realities shaping assessment in Ugandan secondary schools, particularly in under-resourced settings like Gomba District.

A rigorous search strategy was implemented to ensure comprehensiveness and relevance. Peer-

reviewed journal articles, empirical studies, theoretical papers, and national education policy documents were retrieved from academic databases including ERIC, JSTOR, Google Scholar, African Journals Online (AJOL), and ResearchGate. The search used Boolean logic to combine keywords such as "Assessment Practices," "Academic Performance," "Formative Assessment in Uganda," "Continuous Assessment," and "Teacher Assessment Literacy." To ensure contextual relevance and current applicability, the review focused on literature published between 2000 and 2024, with a special emphasis on recent developments from 2015 to 2024. References were cross-checked to identify seminal works and emerging perspectives on assessment reforms, especially in Sub-Saharan African and low-resource contexts.

To ensure methodological rigour, inclusion criteria were applied to select literature that: (a) was peer-reviewed; (b) focused explicitly on assessment practices within the context of secondary education; and (c) included studies conducted in Uganda or comparable educational systems in low- and middle-income countries. Studies were excluded if they focused solely on primary, tertiary, or vocational education, or if they lacked methodological transparency or theoretical grounding. The final selection of sources was subjected to thematic synthesis, whereby key findings were coded and grouped into conceptual categories aligned with the review's objectives. These themes were subsequently organised into narrative clusters that reflect the scope and depth of assessment practices, their empirical link to student performance, and the influence of teacher knowledge and assessment literacy. This methodological rigour ensures that the review offers a reliable and context-sensitive synthesis that can inform educational policy, practice, and further research in Uganda and similar settings. This study on the integrative literature review was based on these study objectives namely; to analyze the theoretical foundations that explain the role of

assessment in shaping student learning and performance in secondary schools; to examine the types and extent of assessment practices employed by teachers in secondary schools in Gomba District; to assess teacher knowledge and assessment literacy and its influence on the effectiveness of classroom-based assessment practices; and to investigate the assessment–performance link by exploring the relationship between assessment practices (formative and summative) and students' academic performance in secondary schools in Gomba District.

THEMATIC LITERATURE REVIEW / FINDINGS

Theoretical Foundations

Assessment practices are best understood when viewed through the lens of educational psychology and instructional theory. This study is grounded in B.F. Skinner's Operant Conditioning Theory (1950) posits that human behaviour, including learning, can be shaped through reinforcement. In classroom settings, assessment acts as a form of external reinforcement: when students receive positive feedback, high grades, or recognition, they are more likely to repeat desirable academic behaviours such as completing assignments, participating actively, or preparing for tests (Staddon, 2019; Roberts, 2021). Thus, assessment practices function not only as evaluative tools but also as mechanisms for behaviour modification, enabling teachers to promote academic engagement and discipline.

However, Operant Conditioning has been criticised for focusing primarily on extrinsic motivation, sometimes neglecting intrinsic learner interests and autonomy (Mandriota, 2021). To address these limitations, this study incorporates the continuous assessment accountability model (Ehiometalor, 1977; cited in Ipaye, 1982), which complements behaviourist theory by emphasising the role of formative, process-oriented assessments in guiding learning over time. The model promotes shared responsibility between teachers and students, with

assessment becoming a cyclical process that involves feedback, reflection, and adjustment. This integrated theoretical approach is particularly relevant in the context of Ugandan secondary education, where assessment practices are often episodic, summative, and misaligned with learners' developmental needs (Brown & Harris, 2019; Mavhunga & Rollnick, 2021).

Types and Extent of Assessment Practices

In theory, Uganda's secondary school curriculum encourages a blend of formative and summative assessment strategies. However, in practice, most schools remain heavily dependent on traditional summative tools such as weekly tests, end-of-topic exams, and mock UCE trials (Etienne, 2007; Mwebaza, 2010). Teachers tend to prioritise assessments that measure content recall rather than skills such as critical thinking or creativity. This narrow focus is largely driven by the pressure to prepare students for high-stakes national exams (UNEB), reinforcing a "teaching-to-the-test" culture (Tumusiime et al., 2023). In Gomba District, this reality is particularly pronounced, as school-based assessments are often used to generate administrative records rather than to inform instruction or track student learning trajectories (Onyango & Alupo, 2023).

Despite policy provisions promoting continuous and competency-based assessments, formative tools such as classroom projects, peer evaluations, oral presentations, and diagnostic quizzes are rarely used. Teachers cite multiple barriers, including large class sizes, limited time, and inadequate training in modern assessment design (Ahmed et al., 2022; Kabombwe, 2023). Furthermore, studies reveal a significant misalignment between curriculum goals, which emphasise the development of higher-order cognitive skills, and the assessment tools employed, which largely measure lower-order thinking such as recall and comprehension (Tumusiime et al., 2023; Bukenya & Nakabugo, 2024). These findings point to a

policy practice gap that undermines the pedagogical purpose of assessment.

Teacher Knowledge and Assessment Literacy

Teacher assessment literacy (AL) is a crucial determinant of the quality and effectiveness of classroom assessment. Assessment-literate teachers can design, administer, and interpret assessment tools in ways that inform instruction and enhance students' learning (Brown et al., 2024). In Uganda, however, assessment literacy remains underdeveloped. Many teachers have limited pre-service and in-service training on assessment principles, especially regarding formative strategies such as self-assessment, feedback loops, or digital evaluation tools (Wood & Doğan, 2024; Nalukwago & Nkata, 2023). Instead, educators rely on conventional paper-based tests and standardised formats that offer minimal opportunities for learner reflection or skill development.

This inadequacy is compounded by structural challenges such as limited access to training resources, overcrowded classrooms, and a lack of instructional support systems (Iqbal, 2017; Abera et al., 2012). In Gomba District, for instance, most teachers report relying on test books and past UCE papers to design assessments, without clear alignment to curriculum objectives (Kibaya, 2025). International studies support these concerns: a review by *Frontiers in Education* (2023) found that low assessment literacy is strongly associated with inconsistent or ineffective assessment practices. Conversely, targeted professional development in assessment design has been shown to enhance student outcomes (Panadero et al., 2022; Estaji, 2024), reinforcing the need for investment in AL within Ugandan secondary schools.

The Assessment–Performance Link

There is a growing consensus in the literature that assessment practices—particularly formative ones—are strongly correlated with student academic performance. When implemented effectively, formative assessments offer timely

feedback, diagnose learning gaps, and enable instructional adjustments that directly enhance student learning (Brookhart, 2021; Andrade & Heritage, 2020). For example, studies by Mwangi and Njuguna (2021) in Kenya and Obboko et al. (2015) in Uganda reveal that students regularly exposed to continuous assessment outperformed their peers in final UCE exams. Such findings underscore the instructional value of well-structured, ongoing assessment in boosting academic achievement.

However, the developmental potential of assessment remains unrealised in many Ugandan classrooms due to the dominance of rigid summative systems. Feedback is often delayed or vague, limiting students' ability to respond to instructional guidance or improve performance (Mwangi & Kiptoo, 2022). Moreover, most assessments focus on coverage rather than mastery, failing to reflect student progress or readiness for higher learning tasks (Nanyanzi et al., 2023; Okello & Aguti, 2020). This disconnect is particularly harmful in resource-constrained environments like Gomba District, where few students achieve Division 1 in national exams, and overall pass rates remain consistently low (UNEB, 2019). Thus, while assessment practices are frequent, they are often pedagogically superficial and poorly aligned with performance improvement.

DISCUSSION

The integrative review reveals a persistent and troubling gap between Uganda's national educational reform agenda and the actual assessment practices implemented in secondary schools, particularly in rural districts such as Gomba. While the Ministry of Education and Sports (MOES) has prioritised competence-based curricula and continuous assessment models (MOES, 2020), schools continue to rely overwhelmingly on summative assessments such as weekly tests, mid-term exams, and mock UCE examinations (Kibaya, 2025). These practices promote surface learning and examination coaching rather than the development

of critical thinking, creativity, or analytical skills. The predominance of content-recall assessments undermines the formative purpose of classroom evaluation and limits the extent to which teachers can diagnose and respond to learner needs.

One of the critical reasons for this disjunction lies in the inadequate levels of teacher assessment literacy (AL). As the reviewed literature indicates, teachers in many Ugandan secondary schools—especially in rural areas—lack formal training in designing, administering, and interpreting formative assessments (Wood & Doğan, 2024; Mutua & Onyango, 2021). Assessment remains a misunderstood and poorly applied component of pedagogy. In Gomba District, teachers often equate assessment with grading, rather than using it as a tool for learning enhancement. This narrow interpretation limits the capacity of classroom-based assessments to improve student outcomes. Moreover, most teachers are unfamiliar with alternative assessment techniques such as peer evaluation, self-assessment, or rubric-guided feedback, which are commonly used in more advanced educational systems.

The mismatch between curriculum objectives and assessment implementation is further exacerbated by systemic constraints. Overcrowded classrooms, limited instructional resources, lack of assessment tools, and insufficient support from school leadership hinder the translation of policy into practice (Kabombwe, 2023; Ahmed et al., 2022). In many schools in Gomba, teachers must manage large class sizes with minimal assistance, making it practically difficult to offer individualised feedback or conduct portfolio-based assessments. Without adequate infrastructure and a culture of continuous professional development, assessment reform remains rhetorical rather than actionable. Even where teachers recognise the value of formative assessment, they are often constrained by time, workload, and institutional expectations that prioritise summative scores.

From a theoretical standpoint, the review confirms the relevance of Skinner's Operant Conditioning Theory in explaining how assessment, when structured as reinforcement, shapes academic behaviours. Positive reinforcement through timely feedback, recognition, or progress tracking can motivate students to engage more meaningfully in learning tasks (Staddon, 2019). However, current assessment practices in Uganda often lack this motivational dimension. Rather than reinforcing academic effort, summative assessments tend to penalise poor performance without providing corrective pathways. The Continuous Assessment Accountability Model complements this by emphasising shared responsibility in assessment, an element missing in the teacher-centred approaches commonly observed in Gomba District (Ipaye, 1982; Kibaya, 2025). These theoretical insights call for a shift from punitive and judgmental assessment cultures toward formative, dialogic, and student-centred models.

The implications of these findings are both pedagogical and policy-oriented. Pedagogically, there is a pressing need to embed assessment for learning (AfL) practices into everyday classroom routines. This requires equipping teachers with the knowledge and tools to design assessments that align with learning outcomes, support metacognition, and encourage learner autonomy. From a policy perspective, there must be renewed commitment to assessment reform at both the national and district levels. This includes integrating assessment literacy into teacher education curricula, institutionalising school-based in-service training, and creating monitoring frameworks that track the quality, not just the frequency, of assessment practices in schools. Without these systemic adjustments, the potential of assessment to drive improved academic performance will remain untapped.

Finally, the findings highlight that improving academic outcomes in rural Uganda requires more than just curriculum changes—it demands a cultural

transformation in how assessment is understood, valued, and practised. Assessment must cease to be viewed merely as a tool for sorting and grading and be embraced as a continuous, reflective, and developmental component of teaching and learning. For Gomba District and similar educationally marginalised regions, this transformation will depend on coordinated efforts across stakeholders: from policy makers to teacher educators, school administrators, and classroom teachers. Only then can assessment fulfil its role as a catalyst for educational equity and excellence.

CONCLUSION AND FUTURE RESEARCH DIRECTIONS

This integrative literature review reaffirms the centrality of assessment practices, particularly formative assessments, in shaping student academic performance in secondary education. In the context of Uganda, and more specifically in rural districts such as Gomba, the review shows that although national policy frameworks encourage continuous assessment and learner-centred pedagogy, implementation on the ground remains inconsistent and largely ineffective. Most teachers continue to rely on summative assessment formats that prioritise examination preparation over holistic student development. This systemic overreliance on high-stakes testing has limited opportunities for formative feedback, diagnostic learning, and instructional differentiation, all of which are critical for improving learner outcomes.

The findings underscore that teacher assessment literacy is a pivotal yet underdeveloped component of quality education. Teachers are often unprepared to design and apply formative assessments effectively, limiting their ability to track student progress or adapt instructional strategies accordingly. In many cases, assessment is perceived primarily as a grading exercise rather than as an instructional tool. This narrow conception is not only a reflection of limited pre-service training but also of the absence of sustained in-service professional development and pedagogical support

structures, particularly in under-resourced areas like Gomba. Enhancing assessment literacy must therefore be treated as a national priority if academic performance is to improve meaningfully.

Furthermore, the study highlights a significant disconnect between curriculum reform and classroom implementation. While the competence-based curriculum promotes active learning and formative assessment, this intent is rarely translated into actual practice. Teachers are constrained by overcrowded classrooms, rigid timetables, a lack of resources, and pressure to produce high UCE examination pass rates. As such, there is an urgent need to develop contextualised and flexible assessment models that respond to the realities of rural schools without compromising the core principles of continuous, learner-centred evaluation.

In light of these challenges, several strategic recommendations emerge. First, deliberate investment in assessment-focused professional development is essential. This includes incorporating assessment literacy into teacher training institutions, organising regular workshops at school and district levels, and providing mentorship opportunities to build teacher confidence in using a wider variety of assessment tools. Second, there is a need to develop digital and peer-based assessment innovations, particularly low-tech solutions that can be adapted to rural classroom settings. These innovations can enhance student engagement, enable real-time feedback, and reduce teacher workload while maintaining assessment quality.

Additionally, efforts must be made to integrate assessment reform into broader systemic support structures. Curriculum change without corresponding reform in classroom supervision, inspection, and school-based professional learning communities will yield minimal results. School leadership and district education offices must be empowered to support assessment innovation, monitor its quality and impact, and foster an

environment that values learning-oriented evaluation over exam results. Looking ahead, future research should adopt longitudinal and mixed-method approaches to examine the long-term impact of formative assessment interventions in Ugandan schools. Comparative case studies between rural and urban districts would help identify context-specific enablers and barriers. Research could also investigate student perspectives on assessment practices, as well as the role of digital tools and inclusive assessment strategies in supporting marginalised learners. Focusing such research in districts like Gomba, where academic performance remains low, will provide practical insights to guide both policy and pedagogical reform, ensuring that assessment becomes a true engine for educational improvement.

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