



# A Student Engagement and Learning Gains Framework for Educational Robotics Programmes in Burkina Faso Secondary Schools

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## Abstract

Educational robotics programmes in Burkina Faso's secondary schools aim to enhance students' STEM education and engagement. However, limited research focuses on evaluating student participation and learning outcomes. The proposed model will integrate qualitative and quantitative data collection methods, including pre- and post-project surveys, observation logs, and standardised assessment tools. The theoretical framework will serve as a foundational guide for educators, researchers, and policymakers aiming to improve educational robotics programmes' efficacy in Burkina Faso's secondary schools. Educators should consider integrating regular formative assessments into the curriculum to monitor student progress and adapt teaching strategies accordingly. Policymakers are encouraged to fund resources that support these initiatives.

**Keywords:** *Geographical, Pedagogical, Robotics, Engagement, Learning, Curriculum, Evaluation*

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