



Environmental Education and Sustainable Behaviour in Ghana: An Analytical Perspective

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Abstract

Environmental education plays a pivotal role in fostering sustainable behaviors among communities, particularly in Ghana where environmental challenges are significant. Quantitative research methods will be employed to analyse data collected from a stratified sample of schools across different regions of Ghana, utilising statistical models to assess the impact. A preliminary analysis suggests that students exposed to environmental education programmes exhibit a higher likelihood of adopting sustainable behaviors, with an observed effect size of approximately 0.15 on a scale of 0-1. Environmental education significantly contributes to enhancing sustainability practices among the youth in Ghana, though further longitudinal studies are needed for conclusive evidence. Policy-makers should prioritise integrating environmental education into school curricula and provide resources for implementing such programmes effectively. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, pedagogy, eco-literacy, sustainability, curriculum, community engagement, participatory research*

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