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## Current states of STEM education in Kenya

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### Abstract

STEM (Science, Technology, Engineering, and Mathematics) education is critical for fostering innovation and economic growth in developing countries like Kenya. However, it faces multiple challenges that hinder its effectiveness and reach. The aim of this article is to comprehensively examine the various obstacles that impede STEM education in Kenya, including gender disparity, insufficient infrastructure, and a significant shortage of qualified teachers. Additionally, it delves into socio-cultural factors that limit participation and provides practical recommendations for overcoming these challenges. The article also addresses issues such as outdated curricula and the lack of industry linkages, which reduce the relevance and efficiency of STEM education in Kenya. By incorporating evidence and citations from diverse sources such as research papers and expert interviews, this study reveals the depth and breadth of the difficulties Kenya faces in providing quality STEM education. The article underscores the urgent need for strategic interventions by the government, private sector, and local communities to enhance the quality, accessibility, and inclusiveness of STEM education in Kenya.

**Keywords:** STEM, Science, Technology, Engineering, and Mathematics, Kenya



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