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## APPRAISAL OF SENIOR SECONDARY SCHOOL PHYSICS TEACHERS' PEDAGOGICAL CONTENT KNOWLEDGE

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### ABSTRACT

The study was designed to appraise the senior secondary school physics teachers' pedagogical content knowledge (PCK). It also determined the relationships between the level of the teachers' PCK and their students' understanding of physics; and the students' perception of their teachers and their understanding of physics. The study employed a survey and classroom observation for data collection, using students' perception of teachers questionnaire; Physics Teaching Observation Scale (PTOS) and Physics Achievement Test (PAT). Descriptive statistics i.e. mean and standard deviation, was used to analyze the level of possession of physics teachers' PCK. Pearson Product Moment Correlation Coefficient was used to measure the relationship between teachers' level of PCK and students' understanding of physics, and students' Perception of their teachers and their understanding of physical . Emphasis was placed on two levels of PCK: Knowledge of the subject matter and knowledge of instructional strategies for teaching physics. A sample of sixty students and three teachers were involved in the study. Findings revealed that the teachers possessed low level of PCK of physics, and there is a significant relationship between the teachers' level of PCK and students' understanding of physics, and students' perception of their teachers and their understanding of physics. Among others it was recommended that opportunities should be provided for both pre service and in service teachers to enhance their PCK through courses and other professional development programs that specifically improve a teacher's content knowledge as well as pedagogical knowledge of physics.

**Apply to be considered for a student award (Yes / No)?**

No

**Level for award (Hons, MSc, PhD, N/A)?**

N/A

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