

## ABSTRACT

### **Constructivism: Its Impact on Students' Attitudes and Understanding of Chemistry Concepts on the Topic: Acids and Bases: A Case Study of a Form Three Class**

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This mixed method study sought to determine the impact of the constructivist approach to the teaching of chemistry at a secondary school in Trinidad and Tobago. In this case study, the constructivist learning theory was used to teach the topic: Acids and Bases to a Form 3 class to identify if there was any change in their attitudes and understanding of these concepts. Findings indicated that: 1) after the constructivist approach was employed, the students appeared to have an appreciation of the relevance of chemistry to their everyday lives; 2) there seemed to be a genuine shift in students' attitudes, with their indicating that they felt motivated to make chemistry a career choice; and 3) most students agreed that the constructivist approach assisted them in grasping chemistry concepts and improved their learning of the content.

**Keywords:** Secondary school students; Case studies; Student attitudes; Secondary school science; Constructivism; Chemistry education; Teaching methods; Trinidad and Tobago