The Effect of Using Learning Cycle (Bybee 5E's Model) and V-shape Map on Students’ Achievement in Chemistry Among Grade 10 Students in the United Arab Emirates

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Abstract

This study aimed at investigating the effect of using learning cycle (Bybee 5 E’s Model) and V-shape Map on students' achievement in chemistry among grade 10 students in the United Arab Emirates (UAE). A purposeful sample consisted of (81) 10th grade students at Applied Technology High School distributed into three sections. The sections were chosen randomly, the first experimental group taught using Learning Cycle (Bybee 5E's Model), and the second experimental group taught using V-shape map, and the third section is the control group taught by traditional method. To achieve the aim of the study, the researcher prepared an achievement test of chemistry and prepared lesson plans according to the learning cycle model and V-shape map. The result of the study revealed that there is a significant difference at ($\alpha \leq 0.05$) on students' achievement in chemistry among 10th grade students contributed to using a teaching strategy based on Learning cycle and V-shape map. In view of the results, it is recommended to train teachers to improve their performances in using the learning cycle (Bybee 5E's Model) and V-shape map in their teaching in order to improve students' achievement in chemistry.

Key words: Learning Cycle, Bybee 5E’s Model, V-shape map, Achievement, Chemistry.

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