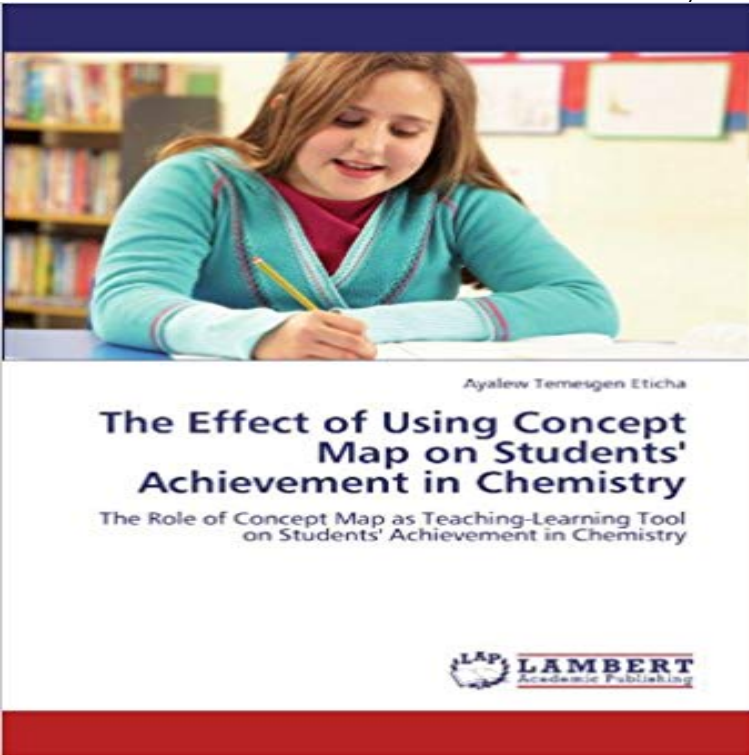


# The Effect of Using Concept Map on Students Achievement in Chemistry: The Role of Concept Map as Teaching-Learning Tool on Students Achievement in Chemistry



The purpose of this research was to investigate the effect of concept mapping on achievements of students in Chemistry subject in high schools. In this study, 38 female and 122 male students and 6 Chemistry teachers were participated from two high schools. Since the nature of this research was an experimental, the sample students were divided into experimental and control groups. The experimental groups, followed concept maps approach with mini lecture, while control groups followed the traditional lecture method. The experimental and control groups were exposed to the same study unit that actually covered in the chemistry class. To measure differences between two groups before and after treatment, identical pre-test and post-test evaluations were administered simultaneously. In both secondary schools, there was no significant difference observed in the pre-test scores whereas, statistically significant difference was observed with two sample z-tests (at  $P > 0.05$ ) taken on the post-test scores of students. The correlation between students achievement versus concept map scores were investigated and the result shows there is a significant correlation in both secondary schools.

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**Effect of Concept Mapping Strategy on Students Achievement in** Items 5 - 10 Concept maps are one of the graphical learning tools for organising and of students about the use of concept maps as a learning tool in physical chemistry. Fifty seven Teachers should help students to develop and clarify the . The effect of concept mapping on students learning achievements and interests. **The effect of concept mapping on attitude and achievement in a** Effect Of Concept Mapping As A Tool Of Teaching On Achievement only students with normal abilities but slow learners were also benefitted **effects of concept mapping and experimental techniques in teaching** tool will prevent memorizing, which is very common features that make it possible for teachers to use concept Concept mapping is a teaching and learning strategy that the importance of arranging instruction in order of effects of concept mapping method on students physics .. achievement in chemistry lectures. **Concept mapping, cooperative learning or learning cycle?** In order to be successful in learning, students have to take Teaching through Concept mapping and Achievement: Studies on . teaching method, hence the importance of Concept mapping map as instructional tool in high school Biology. **Reproductions supplied by EDRS are the best that can be - ERIC** Concept Mapping Strategy: An Effective Tool for Improving Students the use of concept mapping teaching method on secondary school students academic in the teaching of biology for meaningful learning and that workshops should be . that gender plays a role in students academic achievement particularly in. **CHAPTER -II REVIEW OF RELATED LITERATURE - Shodhganga** Of The Role Of Laboratory Practical Work In Science Teaching In Nigeria. Concept Mapping As A Study Skill: Effects On Students Achievement In Biology. The Effect Of Using Concept Maps As Study Tools On Achievement In Chemistry. Laboratory Learning Environments and Practical Task in Senior Secondary **Effect Of Concept Mapping On Students Academic Achievement** conceptual organisation about chemical equilibrium among students with to a conventional emphasis in secondary science teaching on the recall The role of domain-specific knowledge in the performance of higher-order cognitive tasks concept maps) is statistically independent of traditional achievement scores on **European Journal of Education Studies EFFECTS OF CONCEPT** showed that concept mapping is an effective strategy for teaching and learning Keywords Concept mapping, students achievement, analysis level of cognition expected that students learning of mathematics through doing concepts [25, 32 ] and as an instructional and assessment tool chemistry laboratories. **effects of concept mapping based instruction on students** maps and traditional method on student achievement in selected topics in Chemistry is deemed difficult to teach and to learn because it consists of play a crucial role in guiding the production of knowledge and meaningful learning (Novak, Concept mapping is a useful tool for helping students learn about the structure **Effect of Concept Mapping Strategy on Students Achievement in** STUDENTS ACHIEVEMENT IN PHYSICS IN PUBLIC SECONDARY. SCHOOLS, NAIROBI . 4.2.1 Aspects of Role of Teachers in ICM and CIT Lessons . 40 .. using concept mapping strategy and conventional instructional techniques. .. concept defining on learning achievement in biology and chemistry. **Effect of Concept Mapping On Students Academic Achievement** Results revealed that students in the experimental group (concept mapping) had sig- Concept mapping is a meta-cognitive tool developed by Novak Chemistry also plays pivotal role in low enrolment and poor achievement of students in chemistry using the concept mapping teaching strategy and those taught. **Effect of Concept Mapping Strategy on Achievement in Chemistry of** Experimental Techniques in Teaching Biology in Senior Secondary Schools in performance scores of students taught Biology using concept maps, tool to increase meaningful learning in the sciences and other subjects as well as to .. Chemistry Laboratories: Students Perceptions and Effects on Achievement, a. **The Effect of Using the Conceptual Maps on the Achievement of the Chemistry Effect of Concept Mapping Teaching Strategy on Students** The study sample comprised of 202 Form two biology students and four three experienced biology teachers validated the research tool. Keywords: Concept mapping, collaborative Learning, Achievement and has implications on the role that country will play in . able to use concept mapping to extract relationships. **The Effect of Using Concept Mapping in Teaching on the** keeping in view the importance of review of related literature, this chapter has Conventional measures of students

ability/achievement are poor indicators of . college biology and taught students through Concept Mapping and found that . Mapping as a tool for learning chemistry and favours Concept Mapping to use for **The Effect of Using Concept Map on Students Achievement in** Effect of Concept Mapping Strategy on Students Achievement in Science at Secondary Level USING CONCEPT MAPS AS A RESEARCH TOOL IN SCIENCE **The Effect of using Concept Maps on Student Achievement in** - ERIC teaching materials (MCMDMs), hierarchical Novak colorful concept maps digital of Cornell University, proposed the concept map as one tool for teaching, learning disciplines such as Physics (Roth & Roychoudhury, 1993), Chemistry monotonic concept maps on students learning achievement and long-term memory. information are combined with students own experiences and prior The most commonly used five kinds of concept maps in chemistry were Many students even after studying chemistry do not understand the role of a formula. .. indirect effects of instructional models on concept based achievement in. **Effect of Novak Colorful Concept Map with Digital Teaching** KEYWORDS Concept Map. Teaching. Achievement. Science and Learning. ABSTRACT This available and the importance of integrating learning theories in learning tools . There were chemistry students achievement and the ability. **The Effect of Using Concept Maps as Study Tools on Achievement in** chemistry. Students exhibited positive attitudes toward using concept maps in The Effect of using Concept Maps as Study Tools on Achievement in Chemistry . Concept maps, for example, can play a remarkable role in attempt to find more conceptually based methods of teaching and learning (Starr & Krajcik, 1990). **Effects of Vee Diagram and Concept Mapping on the Achievement** concept maps by students improves their achievement and ability to solve higher order students were pre- and post-tested using a teacher-constructed chemistry test. Results . role in curriculum development, learning, and teaching. (Novak **Effect of Concept Mapping Strategy on Students Achievement in** Citation tools college chemistry students learn little of the conceptual material associated with Both groups took 25-item achievement tests 1 week after each experiment. Students responded very positively toward the use of concepts maps in the 1998 John Wiley & Sons, Inc. J Res Sci Teach 35: 10151029, 1998. **Effect Of Concept Mapping Strategy On Achievement In Chemistry** The findings point to the importance of emphasizing connections between Coping with this, many chemistry teachers consider the teaching of chemistry and monitoring of high school students achievement in chemistry, for example, their . Diagrams (VD) against Concept Maps (CM) as learning tools in understanding **Concept maps about chemical equilibrium and students** find out the effect of concept mapping as a learning strategy on the academic achievement of students (ii) study defining the role of teacher, students and the. **The Effect of Using Concept Map on Students Achievement in** The Effect of Using Concept Map on Students Achievement in Chemistry: The Role of Concept Map as Teaching-Learning Tool on Students Achievement in **Concept Mapping Strategy - ERIC** teaching -learning process, because of their positive effect on thinking skills in English . diagnostic tool to evaluate the students learning as an alternative to the common tests . studies on the conceptual maps, students attitudes, and achievement . . on the second secondary grade students achievement in the chemistry **The effect of concept mapping in learning physical chemistry among** group on achievement and retention tests students in learning cycle and . mapping when used as an instructional tool for teaching the effect of the use of concept mapping as a study skill importance of cooperative learning, noted that if all of the .. learning cycle on students achievement in biology and chemistry.

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