

# Effect of Mnemonic and Teaching of Oxidation and Reduction Reactions to Secondary School Chemistry Students

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The purpose of the study was to ascertain the effect of teaching with or without Mnemonic on the academic performance of secondary school students in Chemistry in Calabar Education Zone, Cross River State, Nigeria. The sample consisted of 60 students selected by stratified random sampling method. The pretest-posttest control group quasi- experimental research design was adopted in the study. The treatment lasted for a period of four weeks. The data collected with a 60-item multiple choice achievement test instrument were analyzed using independent t test. The results indicated that there was a significant difference in the academic performance of students taught oxidation reduction reactions with and without mnemonic.

Keywords: Mnemonic, Academic performance, Memory, Students Teacher

#### INTRODUCTION

Chemistry education (chemical education) is a comprehensive term that refers to the study of the teaching and learning of Chemistry in all schools, colleges and universities. Topics in Chemistry education include how students learn Chemistry, how best to teach chemistry, and how to improve learning outcomes by changing teaching methods and appropriate training of Chemistry instructors, within many modes, including classroom lecturers, demonstrations and laboratory activities (Coppola, 2007).

Chemistry education is a systematic process of acquiring the fundamental knowledge about the universe with the indispensable richly acquired knowledge which man can shape and reshape his/her world for their benefit. Chemistry education is the vehicle through which chemical knowledge and skill reach the people who are in need of capacities and potential for development. It also addresses the social objective of sustained development as education is now the primary means for empowerment, participation, cultural preservation, social mobility and equity (Emmanuel, 2013).

Chemistry is the study of matter and energy and the interaction between them. Chemistry is everywhere in the world around you! It is in the food you eat, clothes you wear, water you drink, medicines, air cleaners, you name it (Helmenstine, 2016). Chemistry sometimes is called the "central science" because it connects other sciences to each other such as Biology, Physics, Geology and Environmental Science.

Today, every developed and emerging country needs more scientists to achieve additional scientific and technological developments and to maintain future economic standards of living (EC High Level Group on Science Education, 2007). Other voices emphasize that scientific literacy is needed for all future citizens in order to influence techno-scientific developments in a democratic society for more sustainability (Burmeister, Rauch, and Eilks, 2012) and to enable all citizens to actively and intelligently participate in societal debates concerning any controversial socio-scientific issues (Roth and Lee, 2004).

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