EFFECTIVENESS OF CONCEPT MAPPING ON SCIENTIFIC CREATIVITY AMONG SECONDARY SCHOOL STUDENTS

Name of the student : FOUSIYA KUVERI

Name of the supervising teacher : Dr. K. VIJAYAKUMARI

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OBJECTIVES

> To find out whether experimental group has lighter mean gain score of scientific creativity than control group.

> To find out whether concept mapping contribute to scientific creativty when the intital level of achievement in chemistry is taken as a covariate.

> To find out the effect size of concept mapping on scientific creativity.

METHODOLOGY

Method used : Experimental method

Sample : 9th standard students of two schools

Tool : An introductory lesson plan for concept mapping, Lesson plans based on constructivist approach (for the control group), Concept mapping in the consolidation stage (for the experimental group), Test of scientific creativity, Achievement test in chemistry **Statistical Techniques**: One –tailed test, Two tailed test, ANCOVA, Cohen's 'd' for measuring the effect size

RESULT

Findings of the study revealed that concept mapping is highly effective to develop scientific creativity. Also concept mapping can bring changes in the ability of producing original ideas which one of various among boys than girls.

KEYTERMS: Effectiveness, Concept mapping, Scientific creativity