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TEACHER-EDUCATION: MEETING THE NEEDS OF THE NEW GENERATION

(A Peer-reviewed Research Papers of the Fourth National Conference of Teacher Educators)



Christian College of Education

Kanyakumar District, Tamilnadu.

in co-ordination with



Kanniyakumari Academy of Arts and Sciences

(A Multi-Discipilinary Researchers' Forum)

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திருக்குறள்

Nothing is more pleasing to all parents on this great earth than that their children should possess real learning

- The Sacred Kural

Teacher-Education: Meeting the Needs of the **New Generation**

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DEVELOPING SOCIAL INTERACTION SKILLS THROUGH CO-OPERATIVE LEARNING APPROACH.

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ABSTRACT

An essential component and important prerequisite for academic learning is the teaching of social interaction skills. It encompasses communicating, building and maintaining trust, providing leadership, and managing conflicts and decision making capacities. Students who have never been taught the prerequisite social interaction skills cannot be expected to achieve their social goals. This paper investigated the effectiveness co-operative learning approach in developing students' social interaction skills. The findings of the study proved that the co-operative learning approach was more effective in developing social interaction skills than traditional method.

Introduction

The present class room pedagogy provides less opportunity for some interaction. Many of the teachers adhere to the traditional method delivering knowledge and often experience failure in implement social situation. They hold the position of authority and impart knowledge for the students. The mechanical transmissions knowledge through traditional method restricts the social interaction among them. Social interaction skills are essential for develop positive self-esteem, building relationships, and ultimately acceptance into the society. To communicate effectively with other establish friendships, positive social relationships, and be perceived as a likeable human being, a person must demonstrate good so interaction skills. Higher secondary period is a critical period in life of adolescents; the expectation is that they know the most communication is the communication in the control in the

social rules for the community in which they live. This means that social rules for the community in which they live. This means that adolescents need to have learned most of the basic social interaction adolescents need to have learned most of the basic social goals. In this skills that will enable them to achieve their social goals. In this adolescence stage they will be expected to recognize social adolescence stage they will be expected to recognize social adolescence stage they will be expected to recognize social adolescence stage they will be expected to recognize social adolescence stage they will be expected to recognize social adolescence stage they will be expected to recognize social interaction skills for its the duty of the teachers to develop social interaction skills for building relationships within the family, with classmates and friends as well as teachers or the members of the community.

Cooperative learning approach is a drastic shift from traditional method. Cooperative learning situation engage students of all levels of performance work together in structured groups toward a shared or common goal. In the words of Johnson, Johnson and Holubc, (1994): "Cooperative learning is the instructional use of small groups through which students work together to maximize their own and each other's learning." In classrooms where cooperative learning is practiced, students pursue learning in groups in meaningful ways. Cooperative learning requires that students work together to achieve goals which they could not achieve individually. In cooperative learning, students achieve many social benefits such as to build friendships, to enhance self-esteem, to build life-long interaction and communication skills, and to master the habits of mind (critical, creative and self-regulated) needed to function as productive members of society. Co-operative learning is an interactive approach to processing information, resulting in greater retention of subject matter, positive attitudes toward learning, and enhanced interpersonal relations among group members.

Since the basic elements co-operation, interpersonal communication and problem solving are critical for the students of today and tomorrow, efforts should be made to assist all students in developing and maintaining social interaction skills. Hence the present investigator made an attempt to investigate the effectiveness co-operative learning approach in developing social interaction skills among higher secondary students.

Objectives of the study

O To investigate the effectiveness of co-operative learning

approach on social interaction skills among the higher second

the post test scores of social interaction skills the experiment group students.

Hypotheses of the study

- There will be significant difference between the experiment group and the control group in developing social skills and the higher secondary students.
- There will be significant difference between the pre test the post test scores on social interaction skills of the experimental grant

Design of the study

The investigator employed 'Equivalent group Pre test - Postle experimental design' for the study.

Variables

The independent variable selected for the experiment was instructional strategy. Co-operative learning approach was used to the experimental group and the traditional method was used for a control group. Scores of social interaction skills as the dependent variable.

Sample

The research study was carried out on a sample of 60 studer of class XI from a Government Aided school namely, St.Joseph Higher Secondary school, Mulagumoodu in Kanyakumari District Tamil Nadu. Stratified random sampling technique was used. 3 students in Experimental group and 30 students in control group was taken for the study.

Instrumentation

70

The tools used for the present study

1. Lesson plans based on Co-operative learning approxiconstructed and validated by the investigator)

2. Social interaction skills inventory (constructed and validated by the investigator).

the investigator). Reliability and Validity of the test

The reliability of the Social interaction skills inventory was found out by Split half method using Spearman Brown prophecy formula out by Split half method using the opinion of the experts the and it was found to be 0.756. From the opinion of the experts the tool possessed adequate face validity and content validity.

Procedure Adopted For The Study

The investigator applied matched group technique to equate the groups. The two groups (the experimental and the control groups) were matched on the basis of Intelligence test (Ravens Progressive Matrices), Socio-economic status, Previous academic achievement, Age and Gender. After forming the groups, randomly one group was taken as experimental group and the other was taken as control group. From the sample of 60; 30 students formed the experimental group and the other 30 formed the control group. To establish the validity of the 'matched group', 't' test was applied to find out the significant difference between the mean scores of the experimental and the control groups on their Intelligence, Socio economic status, and previous Achievement.

Conducting the experiment

In this study, the investigator used Jigsaw method of co-operative learning for preparing the lesson plan in plus level. First administered social skills inventory as pretest to both the groups to assess the pretest scores of the learners. Then the experimental group was taught through co-operative learning approach and the control group was taught the same lessons through the traditional method for a period of 30 days for duration of 90 minutes per day. Both the groups were taught by the investigator. After the instructional treatment, the same test was administered as post test. The data were collected for analysis.

Statistical techniques used

The investigator used the following statistical techniques

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(i) Arithmetic mean

(ii) Standard deviation

(iii) t - test(iv)

ANCOVA Analysis and interpretation

Comparison of social interaction skills between Comparison and the control group for the total sample experimental group and the control group for the total sample pre test level.

Null hypothesis

There exists no significant difference between experimental group and the control group in social interaction skills at the pre test level for the total sample.

TABLE 1 Pretest analysis

				1 1 1 1 1 1 1 1 1 1 1 1						
Group	Mean	SD	N	Mean difference	t	p	Sig.level			
Experimental	15.20	4.92	30	1.20	0.93	0.359	Not			
Control	14.00	5.13	30				significant			

As the above table shows, since the p value was greater 0.05, it was not significant at any level. Hence the null hypothe was accepted. It indicates that the difference between the experimen group and the control group for the total sample in their so interaction skills was not statistically significant at any level in the test. Hence, before the experiment, both the groups had similarson interaction skills.

Comparison of Social interaction skills between experimental group and the control group for the total sample post test level.

Null hypothesis

There exists no significant difference between experimental group and the control group in social interaction skills at the post test level for the total sample.

TABLE 2 Post test analysis

Group	Mean	SD	N	Mean difference	ı	р	Sig. level
	40.17	7.80	30	8.74	4.23	0.000	0.01
Experimental Control	31 43	8.19	30			100	- 6

In the above table, since the p value is lesser than 0.01, it is significant at 0.01 level. Hence the null hypothesis was rejected at 0.01 significance. It indicates that the difference between the level of significant and the control group for the total sample in their experimental group and the control group for the total sample in their experimental grant and sample in their social interaction skills was statistically significant at 0.01 in the post social interpost test level. Further, it was inferred from the mean scores, after the experiment the students in the experimental group scored more in social interaction skills than that of the control group. Hence, the cooperative learning approach was more effective in developing social interaction skills among the students.

Ancova Analysis

Comparison of Effectiveness of the Cooperative learning approach and the Traditional method groups on Social interaction skills for the Total Sample. The hand and the second states

Null hypothesis

There exists no significant difference between the experimental group and the control group in their social interaction skills for the total sample in the adjusted post test level

TABLE 3 Adjusted post test analysis

47=411	M	can	Source	Sum of	df	Mean square	F	P	Sig
	Expl Tradi			squares		square	-	_	level
Pretest (X) 15.20	14.20	20 14.00	Between	21.60	1	21.60	0.856	0.359	NS
	15.20		Within	1462.80	58	25.22			
			Total	1484.40	59		-		
Posttest 40.17 (Y)	40.17		Between	1144.07	1	1144.07	17.888	0,000	0.01
	40.17	0.17 31.43	Within	3709.53	58	63.96			
		Total	4853.60	59					
Sum of (SCX)		Within	1649.00			1			
		Total	1806.20					_	
(1.4)			Between	805.21	1	805.21	24.801	0.000	0 01
		32.11	32.11 Within groups	1850.63	57	32.47			
	ut.		Total	2655.84	59				

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A preliminary analysis of variance (ANOVA) was carried to As shown in the s for pre test and post test separately. As shown in the figure sing p value was greater than 0.05 in the pre test level, there was significant difference in achievement score between the experim group and the control group at the pretest level. And for the post the p value was lesser than 0.01, and therefore, it was signification 0.01 level. After correcting the final achievement score for differ in initial scores, ANCOVA was applied to the final score. The of the ANCOVA (Fyx) was 24.80, and since p<0.01, it was signifiat 0.01 level. From the adjusted post test value it was clear that final average score on achievement in Mathematics after h adjusted for the initial difference in the experimental group (3) was significantly higher than that of the control group (32.11). was concluded that the co-operative learning approach was statistic more effective than that of the traditional method in developings interaction skills among higher secondary students.

Major findings

- O There was no significant difference between the student the experimental group and the control group in their su interaction skills in the pre test level.
- O The post test t value on social interaction skills of the high secondary students showed remarkable difference between experimental group and the control group. The ANCO analysis showed that the social interaction skills of the students of the experimental group were higher than the students of control group. Hence the co-operative learning approach more effective than the traditional method for developing social interaction skills among the higher secondary students.

Educational implicationsi

- i. Co-operative learning develops social interaction skill Therefore the co-operative learning approach could be for the teaching -learning process.
- ii. Faculty improvement programmes namely orientation couls

- refresher courses, seminars and workshops could be organized for teachers to familiarize them with the various aspects and techniques of co-operative learning approach.
- techniques

 The present B.Ed and M.Ed curriculum could be reconstructed so as to include the importance, use and practice of co-operative learning approach in it.
- iv. Developing assertive communication skills through social interaction.

REFERENCES

- Abu, Rosini B. (1997). The Effect of Co-operative Learning Methods on Achievement, Retention and Attitudes of Home Economics Students in North Carolina. *Journal of Vocational and technical education*. 13(2), 419-421.
- Aggarwal, J.C. (2007). Essentials of Educational Psychology. New Delhi: Vikas Publishing House Pvt. Ltd.
- Amidon, Edmund J, and John B. Hough, (1967). Interaction Analysis Theory, Research and application. London: Reading Massachusetts.
- Atlas, Dave (2008). Critical Thinking as Problem Solving. Retrieved on April 15, 2009, http://www.critical.thinking.org.
- James Anice (2005). Teaching of Mathematics. Hydrabad: Neelkamal Publication Pvt Ltd.
- Johnson, D.W., & Johnson, R.T., (1995). Co-operation and competition Theory and Research. Minn: Interaction Book.
- Johnson, D.W., Johnson, R.T., & Holubec, E. (1993). Circles of learning: Cooperation in the classroom. Edina, MN: Interaction Book Company.
- Kagan, S.(1995). We can talk: Cooperative learning in the elementary ESL classroom. Washington DC: Eric Clearing on Language and Linguistics.
- Kessler, Carolyn (1992). Co-operative Language Learning. New Jersey: Prentice Hall.
- Webb, N.M. (1991). Task related verbal interaction and Mathematics learning in small groups. *Journal of Research in Mathematics Education*, 22, 366 389.