

### Efficacy of a training program to develop Social Competence in Middle Childhood

Dr Salma Khanum Assistant Professor, Maharani's Science College for Women Bangalore 560 001

#### Abstract

The objective of the research was to study the effect of an intervention program aimed at increasing Social Competence of 9-12-year-old children. A pre-post, experimental research design was used. Students from Government (150) and Private (150) schools were administered the Interpersonal Competence Scale (Cairns et al 1995). Children scoring low on the scale constituted the sample for the study. They were assigned to two groups – the experimental group [n = 17] which underwent the intervention and the control group [n=19] which did not undergo any intervention. The intervention program consisted of fifteen sessions of about an hour each. Intervention sessions were conducted in groups of four to five each at the schools in which the students were studying. The objectives of the sessions were to improve the self-efficacy, social, communicative and emotional skills. The questionnaire was readministered after the intervention to both the groups to determine the efficacy of the intervention. The results indicate a statistically significant difference [t= 3.35 p < 0.01] between the pre and post intervention scores for the experimental group, a non significant difference between the pre and post intervention scores of control group [t=0.239 p ns] and a statistically significant difference [t= 3.55 p < 0.01] between the post intervention scores for the experimental and control group, indicating that the intervention to enhance social competence has been highly effective.



# **1** Introduction

# 1.1 Social Competence

Social competence refers to the social, emotional, and cognitive skills and behaviors that children need for successful social adaptation. Despite this simple definition, social competence is an elusive concept, because the skills and behaviors required for healthy social development vary with the age of the child and with the demands of particular situations. A socially competent preschool child behaves in a much different manner than a socially competent adolescent; conversely, the same behaviors (e.g., aggression, shyness) have different implications for social adaptation depending upon the age of the child and the particulars of the social context.

A child's social competence depends upon a number of factors including the child's social skills, social awareness, and self-confidence. Social skills is a term used to describe the child's knowledge of and ability to use a variety of social behaviors that are appropriate to a given interpersonal situation and that are pleasing to others in each situation. The capacity to inhibit egocentric, impulsive, or negative social behavior is also a reflection of a child's social skills.

Social competence is the broader term used to describe a child's social effectiveness--a child's ability to establish and maintain high quality and mutually satisfying relationships and to avoid negative treatment or victimization from others.

#### 2 Review of literature

The areas of interpersonal or social competence such as aggression, academic



achievement, popularity, affiliation etc., have been studied across various situations by numerous researchers.

A hostile interaction style directly predicted destructive problem-solving behavior & indirectly predicted family problem-solving effectiveness. A warm interaction style related directly to constructive problem-solving behavior & indirectly to family problem-solving effectiveness(Rueter & Conger, 1995).Similarly Sociability-cooperation was associated with peer acceptance and teacher related competence, whereas aggression was associated with social and school difficulties (Chen; Chen; and Li and He 2005).

On the dimension of popularity, Pakaslahti et al (2002), report that prosocial problem solving strategies & prosocial behavior were only minimally related, but both predicted social acceptance among peers. As a dimension, social popularity correlated positively & rejection negatively with prosocial behavior but not with strategies. Analysis of gender and age differences revealed that girls and 14 year olds achieved higher scores on both prosocial strategies and behavior than boys or 17 year olds. The influence of popularity on later adjustment was investigated by Chen et.al.,(2002). The results indicated that sociability and prosocial orientation had differential significance for later adjustment in different areas. Whereas prosocial orientation made unique contributions to the predictor of later socioemotional adjustment. Continuity in competence was found by Eisenberg et al (1997) who found that high quality social functioning was predicted by high regulation and low levels of non-constructive coping, negative emotionality and general emotional intensity. Contemporaneous correlations at age 8-10 were similar to those obtained at age 6-8, & prediction of later social functioning from emotionality and regulation at age 4-6 was similar at ages 6-8 & 8-10.

Pomerantz and Rudolph (2003) report that emotional distress predicted negative beliefs about the self and the world over time; these beliefs in turn predicted decrements in competence estimation over time. Negative views of the self and the world mediated the path from emotional



distress to competence underestimation. The findings suggest that the experience of emotional distress has negative implications for children's development.

Investigating the effects of intervention on anxiety Bernstein et.al.,(2005) and Mifsud and Rapee (2005) in separate studies found that both active Cognitive Behavior Therapy treatments were more effective than the no treatment control condition in decreasing child anxiety symptoms and associated impairment. When parent training was combined with child group CBT, there were some additional benefits for the children. School-based early intervention appears to offer an effective means of reducing anxious symptomatology in economically disadvantaged populations. The school environment offers promise as a means of extending the reach of efficacious interventions for mental health to underserviced populations.

After exposure to intervention program (Interpersonal Problem-solving training), there were significant differences in pre and post testing performance of experimental group boys (Malik et.al.,2005). Similar findings are reported by Fraser,et.al.(2005) that prevention programs can strengthen social-emotional skills and produce changes in aggressive behavior.

All these findings suggest that adaptive social skills constitute a mechanism through which children express their emotion knowledge and achieve peer acceptance

# 3 Method

# **3.1 Objectives**

To study the effect of an intervention program on the social competence of 9-12 year old children.

# **3.2 Hypotheses**

- 1. Gender and school environment will independently and interactively influence levels of social competence and its constituent sub components.
- 2. There will be a significant improvement in social competence in the experimental group of children after intervention.



- 3. Pre-post assessment of the different indicators will show no significant difference in the control group.
- 4. Post intervention assessments will show significant differences in the experimental and control group on the different indicators.

# 3.3 Operational definition

Social competence: The ability to apply social-cognitive skills successfully in initiating social interactions, responding positively to peers and resolving interpersonal conflicts.

# 3.4 Sample

The total sample of 300 children consisted of 150 boys and 150 girls in the age group of 9-12 years. Of these, 75 boys and 75 girls were selected from Government schools and 75 boys and 75 girls were selected from Private schools. All the students were from those studying the state syllabus (SSC).

The intervention sample was determined based on the scores on Social Competence (children with scores below one standard deviation of the mean were selected). There were altogether 66 children -36 boys and 30 girls who obtained low scores. 29 were from the 4<sup>th</sup> standard, 19 were from the 5<sup>th</sup> standard and 18 were from the 6<sup>th</sup> standard. The mean age of the group was 10.51 years with a standard deviation of 1.62. The group consisted of 56% boys and 43% girls, predominantly Hindus, Kannada speaking, youngest borns from nuclear families, with parents who were just matriculates with incomes less than rupees 5000. Of this group, the 18 children from 6<sup>th</sup> standard could not be included for intervention, as they would no longer fulfill the inclusion criteria (age wise) at the time of intervention.

# Table 3.1 showing the demographic details(in percentages) of the sample studied

Sl no	Class	demographic details	percentages			
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r .			
1	Age	9 years old	13.3%
		10 years old	22.3%
		11years old	24.7%
		12 years old	23.7%
2	Gender	Boys	49.8%
		Girls	49.8%
3	Religion	Hindu	56.1%
	Ū.	Muslim	24.3%
		Christian	4.3%
		Others	14.3%
4	Mother tongue	Kannada	29%
•	into the tong to	Tamil	11.6%
		Telegu	15.6%
		Urdu	23.4%
		Hindi	3.3%
		Others	14.6%
5	Order of birth	Eldest	23%
5	Order of birth	Youngest	25% 38%
		Middle	29.7%
		Only	5%
		Twin	2%
6	Type of family	Nuclear	50.5%
		Joint	17.6%
		Extended	18.3%
7	Fathers education	SSLC	26.2%
		PUC	4.3%
		BA, BCom, BSc	3.7%
		BE, MBBS	.7%
		PG	.7%
		< SSLC	15.3%
		Double Graduate	.7%
		Diploma	.3%
8	Fathers income	<5000	37.2%
		5-15000	12%
		15-25000	3.7%
		>25000	2.7%
9	Mothers education	SSLC	21.6%
-		PUC	5.65%
		BA, BCom, BSc	2.3%
		BE, MBBS	
		PG	
		<sslc< td=""><td>25%</td></sslc<>	25%
		Double Graduate	2370
		Diploma	
10	Mathana in a sure		17.60/
10	Mothers income	<5000 5-15000	17.6%
			3.3%
		15-25000	1%
		>25000	.3%

This sample of low scorers was then assigned to two groups - the experimental (intervention) group, which consisted of seventeen children and the control group, which consisted of nineteen children. The number of girls and boys were not equal.

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# 3.5 Tools and techniques

3.5.1. Socio demographic sheet – developed by the researcher to elicit the relevant socio-

demographic details such as age, gender, family details, school details.

**3.5.2 The Interpersonal Competence Scale (ICS-T)** (Cairns et al; 1995) was used to assess Social competence. This is a set of brief rating scales for teachers and parents. It consists of 18 items that assess social and behavioral characteristics of children and youth. Informants are asked to describe the student on each item, which is presented on a unidimensional, 7-point bipolar scale.

Authors of the scales report adequate reliability and validity.

# Table 3.2 Showing details of the various subscales

### **3.6 Procedure**

Slno	Questionnaire	Scale	Subscale
1	Interpersonal	Interpersonal	Aggressiveness
	Competence	Competence	Academic Achievement
	Scale	-	Popularity
			Social Affiliation
			'Olympian' qualities
			Internalizing Problems (This score is not included
			in the Summed interpersonal competence score

The Interpersonal Competence Scale was completed by the class teachers of the children. The data collection was completed in around seven months i.e., February 2005 to August 2005.

The responses obtained were then scored based on the scoring criteria provided by the authors of the different scales.

The intervention sample was determined based on the scores on Social Competence (children with scores below one standard deviation of the mean were selected).

# Table 3.3 showing the demographic details (in percentages) of the experimental and control

group.



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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	01 ns 75 ns
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	01 ns 75 ns
Girls $35.3$ $57.9$ $1.83$ 2ReligionHindu $41.2$ $21.1$ Muslim $35.3$ $52.6$ $1.79$ Others $17.6$ $15.8$ $1.79$ 3MotherKannada $52.9$ $31.6$ tongueTamil0 $10.5$ $4.17$ Urdu $35.3$ $47.4$ $0$ Urdu $35.3$ $47.4$ $41.7$ Urdu $35.3$ $47.4$ $5.9$ 4Order ofEldest $17.6$ $5.3$ 4Order ofEldest $17.6$ $5.3$ $Middle$ $17.6$ $57.9$ $7.88$ $0$ $01y$ $11.8$ $0$ 5Type ofNuclear $47.1$ $57.9$ $family$ Joint $17.6$ $5.3$ $5$ Type ofSSLC $23.5$ $36.8$	01 ns 75 ns
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	75 ns
Muslim         35.3         52.6         1.79           Others         17.6         15.8         1.79           Mother         Kannada         52.9         31.6         1.79           Mother         Kannada         52.9         31.6         1.79           Tongue         Tamil         0         10.5         1.79           Telugu         5.9         0         4.17           Urdu         35.3         47.4         4.17           Others         5.9         5.3         47.4           Others         5.9         5.3         47.4           Others         5.9         5.3         7.88           Middle         17.6         57.9         7.88           Middle         17.6         57.9         7.88           Only         11.8         0         7.88           Only         11.8         0         7.88           Middle         17.6         57.9         7.88           Middle         17.6         57.9         7.88           Family         Joint         17.6         5.3         3.57           Extended         17.6         5.3         3.57	75 ns
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Telugu       5.9       0       4.17         Urdu       35.3       47.4       417         Others       5.9       5.3       47.4         4       Order of       Eldest       17.6       5.3         4       Order of       Eldest       17.6       5.3         4       Order of       Eldest       17.6       5.3         Middle       17.6       57.9       7.88         Only       11.8       0       7.88         5       Type of       Nuclear       47.1       57.9         family       Joint       17.6       15.8       3.57         Extended       17.6       5.3       45.3         6       Father's       SSLC       23.5       36.8	
Urdu         35.3         47.4           Others         5.9         5.3           4         Order of birth         Eldest         17.6         5.3           4         Order of birth         Youngest         52.9         31.6         7.88           Middle         17.6         57.9         7.88         0         7.88           5         Type of family         Nuclear         47.1         57.9         57.9           5         Type of family         Joint         17.6         15.8         3.57           6         Father's         SSLC         23.5         36.8         15.8	
Others         5.9         5.3           4         Order of birth         Eldest         17.6         5.3           4         Order of birth         Youngest         52.9         31.6         7.88           Middle         17.6         57.9         7.88         7.88           Only         11.8         0         7.88           5         Type of family         Joint         17.6         15.8         3.57           Extended         17.6         5.3         4.57         4.57         4.57           6         Father's         SSLC         23.5         36.8         4.57	3 ns
4         Order of birth         Eldest Youngest         17.6 52.9         5.3 31.6 57.9         7.88           Middle         17.6         57.9         7.88           Only         11.8         0         7.88           5         Type of family         Nuclear         47.1         57.9           6         Father's         SSLC         23.5         36.8	3 ns
birth         Youngest         52.9         31.6         7.88           Middle         17.6         57.9         7.88           Only         11.8         0         7.88           5         Type of family         Nuclear         47.1         57.9           family         Joint         17.6         15.8         3.57           Extended         17.6         5.3         36.8	3 ns
Middle         17.6         57.9         7.88           Only         11.8         0         0         1           5         Type of family         Nuclear         47.1         57.9         57.9           family         Joint         17.6         15.8         3.57           Extended         17.6         5.3         36.8	33 ns
Middle         17.6         57.9           Only         11.8         0           5         Type of family         Nuclear         47.1         57.9           family         Joint         17.6         15.8         3.57           Extended         17.6         5.3         36.8	55 118
5         Type of family         Nuclear         47.1         57.9           17.6         15.8         3.57           Extended         17.6         5.3           6         Father's         SSLC         23.5         36.8	
family         Joint         17.6         15.8         3.57           Extended         17.6         5.3	
Extended         17.6         5.3           6         Father's         SSLC         23.5         36.8	
6 Father's SSLC 23.5 36.8	/4 ns
education PUC 0 5.3 6.05	
BA, BCom, BSc 5.9 0	5 ns
Diploma 5.9 21.1	
7 Father's <5000 35.3 52.6	
income 5-15000 17.6 15.8 5.30	5
15-25000 11.8 5.30	05 ns
>25000 5.9	
8 Mother's SSLC 23.5 26.3	
education PUC 5.9 10.5	1
$\begin{bmatrix} 10.5 \\ BA, BCom, BSc \\ 5.9 \end{bmatrix}$	1 ns
Diploma 17.6 42.1	
9 Mother's <5000 17.6 26.3	
income 5,15000 5,0 5,3	
15-25000 5.9 0 2.50 15-25000 5.9	
>25000 5.9 0	00 ns

A suitable intervention addressing the relevant areas of socioemotional development was administered to the experimental group.

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The exact module for intervention was developed based on the findings of Phase I. However, an eclectic approach was adopted. The intervention included activities from a module developed by Gerard & Gerard (2002) – "Counselling Children" and Rae & Simmons (2004) – "The Anger Alphabet" The intervention model was Group-based and was conducted in the schools. The number of children in a group ranged between 8 - 12. The intervention was carried out thrice a week for about five weeks. The Intervention program consisted of fifteen sessions of about an hour each, in which the various activities were interspersed so that the self-efficacy, social and communicative skills and emotional skills were equally focused upon. The children were tested just before the Intervention began. The tests administered was the Interpersonal Competence scale Teacher form (Cairns et al 1995).

The following table gives details about the sessions

# Table 3.4 giving details of activities involved for the intervention

Sl No	Title of activity
1	A, B, Identifying our feelings
2	C, D, Identifying others feelings
3	E, F, Expressing feelings
4	G, H, Discover yourself
5	I, J, Making friends
6	K, L, Being left out
7	M, N, Solving conflicts
8	O, P, Strengths and Limitations
9	Q, R, Chilling out
10	S, T, Consequences
11	U, V, Goals for the future
12	W, X, Sticking up for yourself
13	Y, Z

The Last session was a comprehensive one where the students recapitulated all the activities that had been done previously.

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# Table 3.5 depicting the duration and rationale of each activity in the Intervention

Sl no	Duration (in minutes)	Name of Activi	ty	Rationale/ purpose		
1	5			To understand that anger is a healthy emotion that every one experiences		
	15			To understand the 'Stop, Think Reflect' process		
	5	Identifying our feelings     Find a feeling       Identifying our feeling     Find a feeling       Identifying our feeling     factor       Identifying our feeling     Find a feeling       Identifying our feeling     factor       Identifying our feeling     factor		How anger is bottled up and how to let it out safely		
	15			To identify avenues through which anger can be safely released		
	10			Helps the child to identify particul feelings by relating them to even and situations		
	10			Helps the child to consider events, which make him anxious.		
2	5	C is for Cool It		To understand bodily changes during anger		
	15			To cool down by thinking of cool and calm words		
	5			To visualize the anger process in terms of a burning fuse leading to an explosion		
	15			For each student to understand situations that are real dynamite for them		
	10Identifying others feelingsGuess what?		To help the child to learn to project oneself into situations and guess how others may be feeling.			
	10	Your Body		To use observational skills to see how other people use their bodies and expressions on their faces to indicate how they feel.		
3	5	E is for Explosion	on	At some point in time everyone experiences a real anger explosion		
	15	]		To understand and describe the various events that occurred to lead to		

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Sl no	Duration (in minutes)	Name of Activ	rity	Rationale/ purpose		
	· · · · ·			the explosion		
	5	F is for Fuse 7 F is for Fuse 7 T Expressing The 7 feelings 7 Fighting 1 fear with 1		To visualize anger in the image of a time bomb		
	15	F is for Fuse F is for Fuse Expressing feelings Fighting fear with Felix G is for Grumble Jar H is for Helping Yourself T to the temperature of temperature of the temperature of temperatur		To identify ways in which the fuse to their anger can be extended		
				sufficiently so that it burns out. To identify ways to help their friend		
	10			The process of expression of anger is similar to the workings of a volcano		
	10			Encourages the child to explor possible reactions to fear and to loo at their own reactions to fear.		
4	5			To identify things that make one angry and to set them aside temporarily		
	15			To identify things that one can do to sort out the grumbles set aside previously.		
	5	H is for Helpin	g Yourself	To develop own strategies to manage angry feelings		
	15			To reinforce strategies introduced previously and to reinforce pupils' sense of empowerment and ownership of specific strategies		
	5	Discover I can do yourself anything		To understand that it is OK to behave differently in different circumstances, and to explore the need to be adaptive and considerate of others		
	5	Where am I?		Allows the child to develop a visual picture of those parts of themselves, which they can comfortably let others see, and those parts of themselves, which they prefer to hide.		
	5	My Choice		To discover how much time the child spends in particular activities and to decide whether changes are required.		
5	5	I is for ' I' mes	sages	To learn how to talk about one's anger and to explain to others how		

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Sl no	Duration (in minutes)	Name of Activity		Rationale/ purpose		
				one feels.		
	15			To identify situations in which they may have needed 'I' messages and to record them		
	5	J is for Joke		Anger can be deflected by thinking of something funny		
	15			Reinforces the 'stop and do something else' strategy		
	10	Making friends	Conversatio n starters	To think about suitable conversation starters when in new situations and to explore the anxiety related to new situations.		
	10		??Questions ??	To use questions and answers in initiating conversations and also to learn how to listen and to take turns		
6	5	K is for Kettle	e Boiling	To understand how getting angry is similar to a boiling kettle		
	15			Reinforces the importance of avoiding anger explosions and introduces another anger management strategy		
	5	L is for Lister	ning	Listening to calming music, to our own thoughts and also learning how to listen helps prevent anger.		
	15			To reinforce the notion that music can calm us.		
	10	Being left out	Advice for Jim	Explore reactions to being left out.		
	10		Gumbo gossips	To understand how gossiping damages social relationships		
7	5	M is for Move		Exercise can help release angry feelings and reduce levels of stress		
	15			To identify activities that help to reduce anger and release feelings of frustration.		
	5	N is for No		One can be in control of situations that trigger anger by remaining calm,		

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Sl no	Duration (in minutes)	Name of Activ	ity	Rationale/ purpose
	15	-		and making it clear to others how their actions are provoking anger. Gives children the opportunity to think about and rehearse their 'No' messages.
	10	Solving conflicts	Fighting! Terry,	To think about possible reasons why fights occur To explore different ways of
			Tyrone and Me	responding to conflict
8	5	O is for outside		Physically moving away from an angry situation is a good way to calm down
	15			To identify the physical signs of anger and to understand how to apply some of the calming strategies.
	5	P is for Post It		Writing things down to be dealt with later is a useful way to manage anger
	15			To understand situations that can be dealt with at a later time.
	5	Strengths and Limitatio ns	Inside out	Allows the child to identify 3 separate components of themselves: their body, their emotional feelings and their thoughts
	5		News Head lines	Gives the child an opportunity to process a negative experience but to focus on the positive outcomes of that experience
	5		Jump the hurdl e	Encourages the child to be flexible in their thinking
9	5	Q is for Quality	<sup>7</sup> Talk	Sharing a problem is one way of dealing with it
	15			To understand that solutions should be realistic and that if one solution

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Image: second state of the second s	Sl no	Duration (in minutes)	Name of Activity		Rationale/ purpose
5       R is for Rules       Anger is normal and healthy, it what one does with anger that need to be controlled         15       To understand that rules a important for safety, both, for oness and for others.         10       Chilling out       Look before you leap         10       Chilling out       Look before you leap         10       S is for Shield       To explore the consequences and different actions which can be take at different points in time         10       S       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         10       Consequences       If – then - but       To explore the appropriateness of consequences of particul behaviors.         10       Consequences       If – then - but       To explore the positive an negative consequences of particul behaviors.         10       Consequences       If – then - but       To explore the appropriateness of consequences of particul behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result for bhose feelings         115       To help the students understand ho       To help the students understand ho					does not work another solution
15       what one does with anger that need to be controlled         15       To understand that rules a important for safety, both, for onese and for others.         10       Chilling out       Look before you leap         10       Chilling out       Look before you leap         10       S is for Shield       To explore the consequences different actions which can be tak options at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       To consequences       If - then out.         10       Consequences       If - then out.         10       Consequences       If - then out.         10       Consequences       To explore the appropriateness of consequences of particul behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result for bhose feelings.					Ŭ
15       to be controlled         10       Chilling out       Look before you leap         10       Chilling out       Look before you leap         10       Chilling out       To understand the concept of 'STO THINK and DO'         10       S is for Shield       To explore the consequences and for others.         10       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       T is for Understanding       To explore the positive statements, and also in the present tense.         10       Consequences       If – then - but       To identify triggers to anger, tal time to plan solutions and then them out.         10       Consequences       If – then - but       To explore the appropriateness consequences of particul behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.         11       5       U is for Understanding       To help the students understand one's feelings.		5	R is for Rules		
15       To understand that rules a important for safety, both, for onese and for others.         10       Chilling out       Look before you leap         10       Chilling out       Look before you leap         10       5       S is for Shield       To explore the consequences of different actions which can be take at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       To explore both the positive an equiver consequences of particul behaviors         10       Consequences       If - then - but         10       Consequences       To explore both the positive an equive consequences of particul behaviors         10       Consequences       If - then - but       To explore both the positive an equive consequences of particul behaviors         11       5       U is for Understanding       To explore the appropriateness consequences of particul behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.         15       To help the students understand ho					
10       Chilling out       Look before you leap       To understand the concept of 'STO THINK and DO' You leap         10       Chilling out       Look before you leap       To explore the consequences of different actions which can be take at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       T is for Traffic Lights       To explore the appropriate solutions and then t them out.         10       Consequences       If – then - but       To explore the appropriateness of consequences of particul behaviors         10       Consequences       If – then - but       To explore both the positive at negative consequences of particul behaviors         11       5       U is for Understanding       To explore the appropriateness of consequences and punishments for those feelings, and the behaviors which may result for those feelings         11       5       U is for Understanding       To help the students understand ho					
10       Chilling out       Look before you leap       To understand the concept of *STO THINK and DO'         10       Chilling out       Look before you leap       To explore the consequences of and options         10       5       S is for Shield       To explore the consequences of the shield against anger         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       T is for Traffic Lights       To explore the appropriateness.         10       Consequences       If - then - but         11       5       U is for Understanding       To explore the appropriateness or consequences of particul behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.		15			
10       Chilling out       Look before you leap       To understand the concept of 'STO THINK and DO'         10       10       Choices and Options       To explore the consequences different actions which can be take at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       To identify triggers to anger, tal time to plan solutions and then t them out.         10       Consequences       If - then - but         10       Consequences       To explore the appropriateness consequences of particul behaviors         11       5       U is for Understanding       To understand one's feelings, and th behaviors         11       5       U is for Understanding       To help the students understand ho					
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10       10       Choices and Options       To explore the consequences and different actions which can be take at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       T is for Traffic Lights       Appropriate thoughts can provide shield against anger         5       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       To identify triggers to anger, tal time to plan solutions and then t them out.         10       Consequences       If - then - but angative consequences of particul behaviors         10       Consequences       If - then - but angative consequences of particul behaviors         11       5       U is for Understanding ent       To explore the appropriateness of consequences and punishments for those feelings.         11       5       U is for Understanding       To understand one's feelings, and the behaviors.		10	Chilling out		To understand the concept of 'STOP,
10       Choices and Options       To explore the consequences of different actions which can be take at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       15       How to use positive statements, at also in the present tense.         5       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       Consequences       If - then - but       To explore both the positive at them out.         10       Consequences       If - then - but       To explore the appropriateness of particul behaviors         10       Consequences       If - then - but       To explore the appropriateness of particul behaviors         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result fro those feelings         11       5       To is for Understanding       To understand one's feelings, and the behaviors which may result fro those feelings				before	THINK and DO'
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Options       at different points in time         10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       15       How to use positive statements, at also in the present tense.         5       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       To identify triggers to anger, tal time to plan solutions and then t them out.         10       Consequences       If - then - but end out.         10       Consequences       If - then - but end out.         10       Consequences       If - then - but end out.         11       5       U is for Understanding end one's feelings, and the behaviors.         11       5       U is for Understanding end one's feelings.         15       To help the students understand ho		10		Choices	To explore the consequences of
10       5       S is for Shield       Appropriate thoughts can provide shield against anger         15       15       How to use positive statements, an also in the present tense.         5       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       To identify triggers to anger, tal time to plan solutions and then t them out.         10       Consequences       If - then - but         10       Consequences       To explore both the positive an negative consequences of particul behaviors         10       Crime & Punishm ent       To explore the appropriateness of consequences and punishments for certain behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result fro those feelings         15       To help the students understand ho					different actions which can be taken
15       shield against anger         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       Image: Shield against anger       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       Image: Shield against anger       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         10       Consequences       If - then - but       To explore both the positive are negative consequences of particul behaviors         10       Consequences       If - then - but       To explore the appropriateness of consequences and punishments for certain behaviors.         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result fro those feelings         15       To help the students understand ho       To help the students understand ho				Options	÷
15       How to use positive statements, an also in the present tense.         5       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solutio and implement it.         15       To identify triggers to anger, tal time to plan solutions and then t them out.         10       Consequences       If - then - but         10       Consequences       If - then - but         10       Crime & Punishm ent       To explore the appropriateness or consequences and punishments fert         11       5       U is for Understanding       To understand one's feelings, and the behaviors         11       5       To indentify the proper the students understand ho	10	5	S is for Shield		
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5       T is for Traffic Lights       To apply the simile of traffic lights identify their problem, plan a solution and implement it.         15       To identify triggers to anger, tal time to plan solutions and then to them out.         10       Consequences       If - then - but         10       Consequences       If - then - but         10       Consequences       Crime & To explore both the positive at negative consequences of particul behaviors         10       U is for Understanding       To understand one's feelings, and the behaviors which may result fro those feelings         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result fro those feelings         15       To help the students understand ho		15			±
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15       and implement it.         15       To identify triggers to anger, tal time to plan solutions and then to them out.         10       Consequences       If - then - but         10       Consequences       If - then - but         10       Crime & To explore both the positive an negative consequences of particul behaviors         10       Crime & To explore the appropriateness of consequences and punishments for ertain behaviors.         11       5       U is for Understanding         15       To understand one's feelings, and the behaviors which may result fro those feelings         15       To help the students understand ho		5 T is for Traffic Lights			
15       To identify triggers to anger, tal time to plan solutions and then to them out.         10       Consequences       If – then - but       To explore both the positive an negative consequences of particul behaviors         10       Crime & To explore the appropriateness of purces       To explore the appropriateness of consequences and punishments freent         11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result froe those feelings         15       To help the students understand how					
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10       Consequences       If - then - but       To explore both the positive an negative consequences of particul behaviors         10       Crime & Crime & To explore the appropriateness of purces         10       Crime & To explore the appropriateness of consequences and punishments freent         11       5         15       U is for Understanding         15       To help the students understand hop		15			
10       Consequences       If – then - but       To explore both the positive an negative consequences of particul behaviors         10       Crime & To explore the appropriateness of punction behaviors         10       Crime & To explore the appropriateness of consequences and punishments for ent         11       5         15       U is for Understanding         15       To help the students understand hor					-
10       - but       negative consequences of particul behaviors         10       Crime & To explore the appropriateness of particul behaviors         11       5       U is for Understanding         15       U is for Understanding       To understand one's feelings, and the behaviors which may result from those feelings         15       To help the students understand how		10			
10     Crime & Dehaviors       10     Crime & Punishm ent       11     5       11     5       12     U is for Understanding       15     To explore the appropriateness of consequences and punishments for those feelings, and the behaviors.		10	1		
10       Crime & To explore the appropriateness of consequences and punishments for certain behaviors.         11       5       U is for Understanding         15       U is for Understanding       To understand one's feelings, and the behaviors which may result from those feelings         15       To help the students understand home			- but		
Punishm ent     Consequences and punishments from certain behaviors.       11     5     U is for Understanding     To understand one's feelings, and the behaviors which may result from those feelings       15     To help the students understand home		10	Crime 8		
Image: 11     Image: 5     Image: 6     Imag		10			
11       5       U is for Understanding       To understand one's feelings, and the behaviors which may result from those feelings         15       To help the students understand home					
behaviors which may result fro       15         To help the students understand ho	11	5	Il is for Unders		
15     those feelings       To help the students understand ho	11	5		lanung	-
15 To help the students understand ho					-
		15			<u> </u>
		1.5			
					others and also how the feelings are
different					-
		5	V is for Vocabu	ılarv	To describe accurately what one is
feeling				iiui y	-

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Sl no	Duration (in	Name of Activ	ity	Rationale/ purpose		
	minutes)					
	15			To reinforce the fact that anger is		
				person specific and not every		
		Name of Activity         Goals for the future       Balance your life         These are my wishes       Picture yourself         W is for Wind Down.       Vous 1000000000000000000000000000000000000		situation will cause one to feel the		
				same level of anger.		
	5	Goals for the	Balance	Gives the child a picture of how their		
		future	your life	day is divided and how to achieve a		
			-	more satisfactory balance		
	5		These are	Helps the child to fantasize about		
			my	what they would like in the present, in		
			-	the near future and in the long term.		
				<i>C C C C C C C C C C</i>		
	5		Picture	To identify what they have achieved,		
				and want to achieve, and who or what		
			5	they need to help them achieve their		
				goal		
12	5	W is for Wind	Down.	Giving oneself time to relax and calm		
	•			down is another anger management		
				strategy.		
	15			To identify ways that one prefers to		
	-			relax in.		
	5	X is for X-ray e	eves	To use understanding of ones own		
		5	5	anger to identify other people's		
				feelings		
	15			To help identify the indicators of		
				anger in others.		
		Sticking up for	vourself	Saying 'No' made easy		
				Reward yourself		
10	-	X7 · C X7 11		-		
13	5	Y is for Yell		Yelling is a useful way to get rid of		
	1.5			angry feelings		
	15			To identify situations and places		
				when yelling may be a useful strategy		
	-			in controlling anger.		
	5	Z is for Zero		To visualize an anger thermometer or		
				a tension Scale, and how to move		
				down it.		
	15			To facilitate the students in the		
				appropriate use of the tension scale to		
				resolve an angry problem.		

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# 4. Analysis

4.1 Analysis of results

Children in the age group of 9 to 11 years, from various schools in Bangalore were assessed on Social Competence. The data obtained was subjected to qualitative and quantitative analysis. Appropriate Univariate and Multivariate statistical techniques were applied to verify the hypothesis stated.

Hypothesis 1 states: "Gender and school environment will independently and interactively influence levels of social competence and its constituent sub components". To test this a two-way ANOVA was done and the results are presented in table 4.1.1 and table 4.1.2

Table 4.1.1: Giving the descriptive measures for the Social CompetenceScale and its subscales.

Sl No	Areas Assessed/Scal	Descriptiv Statistics	Boys		Girls		Total	
INO	es	Statistics						
		Type of Schoo	Privat e	Govt	Private	Govt	Private	Govt
		1	_					
1	Interpersonal Competence	Mean	4.25	4.36	4.76	4.51	4.50	4.44

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S1	Areas	Descriptiv	Boys		Girls		Total	
No	Assessed/Scal	Statistics	· ·					
	es							
		Type of	Privat	Govt	Private	Govt	Private	Govt
		Schoo	e					
		1						
		SD	0.78	0.85	0.78	0.93	0.82	0.89
		Total	4.30 (SI	O 0.82)	4.64 (SD	0.87)	4.47 (SD 0	).86)
2	Aggressiveness	Mean	4.24	4.28	5.09	4.39	4.66	4.33
		SD	1.14	1.37	1.16	1.68	1.22	1.53
		Total	4.26 (SI	D 1.25)	4.74 (SD	1.48)	4.50 (SD 1	1.39)
3	Popularity	Mean	4.08	4.37	4.69	4.74	4.39	4.55
		SD	1.18	1.37	0.95	1.53	1.11	1.46
		Total	4.23 (SI	D 1.28)	4.71 (SD	1.27)	4.47 (SD 1	1.30)
4	Academic	Mean	3.92	4.54	4.60	3.99	4.26	4.27
	Achievement							
		SD	1.46	1.66	1.51	1.83	1.52	1.76
		Total	4.23 (SI	D 1.59)	4.30 (SD	1.70)	4.26 (SD 1	1.64)
5	Social Affiliation	Mean	4.88	4.45	5.01	5.08	4.95	4.77
		SD	1.21	1.67	1.06	1.65	1.14	1.68
		Total	4.67 (SI	D 1.47)	5.05 (SD	1.38)	4.86 (SD 1	1.44)
6	'Olympian'	Mean	4.11	4.17	4.42	4.35	4.27	4.26
	qualities							
		SD	1.11	1.20	1.18	1.51	1.15	1.36
		Total	4.14 (SI	D 1.15)	4.38 (SD	1.35)	4.26 (SD 1	1.26)

Table 4.1.2 Giving the results of the two-way ANOVA for Social Competence Scale and its subscales



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Sl	Variable		MS among	MS within	F
	N		Mean Square	Error	-
	0				
1	Interpersonal	Gender	8.256	.705	11.717 (.001)**
	Competence				``´´´
	-	Type of School	.358		.508 (.476) ns
		Interaction	2.515		3.569 (.060) ns
2	Aggressiveness	Gender	17.601	1.836	9.586 (.002)**
		Type of School	8.113		4.418 (.036)*
		Interaction	10.083		5.492 (.020)*
3	Popularity	Gender	17.926	1.624	11.038 (.001)**
		Type of School	1.974		1.215 (.271) ns
		Interaction	1.080		.665 (.415) ns
4	Academic	Gender	.285	2.631	.108 (.742) ns
	Achievement				
		Type of School	.005208		.002 (.965) ns
		Interaction	28.060		10.664 (.001)**
5	Social Affiliation	Gender	10.925	2.025	5.394 (.021)*
		Type of School	2.385		1.178 (.279) ns
		Interaction	4.502		2.223 (.137) ns
6	'Olympian'	Gender	4.400	1.585	2.776 (.097) ns
	qualities			_	
		Type of School	.005926	_	.004 (.951) ns
		Interaction	.290		.183 (.669) ns

\*\* ----- Significant beyond .01 level

\* ----- Significant beyond .05 level

ns ----- not Significant

Social Competence, as assessed by the Interpersonal Competence Scale shows that there are significant gender differences with girls displaying greater Interpersonal Competence than boys.

Aggression, one of the sub areas of Interpersonal Competence shows significant differences across gender and school with girls being more aggressive and private school children being more aggressive than their counterparts. We can also see interactive effects of gender and school with private school girls being most aggressive and private school boys being least aggressive. Government schoolgirls are less aggressive than the private school

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girls. Government schoolboys showed levels of aggression greater than the private school boys but lesser than the government schoolgirls.

Two other sub areas of Interpersonal Competence, popularity and social affiliation show significant gender differences with girls showing higher levels of popularity and affiliation than boys.

Academic achievement, another sub area of Interpersonal Competence reflects significant interactive effects of gender and school with girls from private schools showing highest levels of academic achievement, followed by government school boys followed by government school girls and lastly private school boys.

Hypothesis 1stating: "Gender and school environment will independently and interactively influence levels of Social Competence and its constituent sub components" has also been proved true. This hypothesis receives support from a study on `Social functioning and academic achievement in the context of the peer group' conducted by Chen et al in 2002. Peer groups were homogenous on academic achievement. Academic achievement and social adjustment were associated at both within group individual level and group level. Group academic performance moderated the relations between academic achievement and social adjustment suggesting that individual-level relations might be enhanced or exacerbated by group academic norms. The objective of phase II was to conduct an intervention program to enhance the social competence in middle childhood. Individuals scoring one Standard Deviation below the mean on the Interpersonal Competence Scale (Cairns et al, 1995) were selected for the intervention. Seventeen children comprised the experimental group and nineteen children comprised the control group; the number of boys and girls was not equal.

Prior to the intervention, the experimental and control group were compared on their scores on social competence. This was done to ensure that differences if any, found after the intervention could be attributed to intervention itself and not to existing differences.

Table 4.1.3 gives the results of the analysis.



# Table 4.1.3 showing the t ratios for scores on social competence for the experimental and control group, prior to intervention

Sl no	Variable	Experimental (17)		Control (19)		't' ratio
		Mean	SD	Mean	SD	
1	Social Competence	3.994	.272	3.80	.362	1.82 ns

ns = not significant

As the 't' ratios are non significant, the two groups are comparable on social competence prior to intervention.

Hypothesis 2 stated: "*There will be a significant improvement in social competence in the experimental group of children, after intervention.*" To test this, pre and post intervention assessments were compared using the paired 't' test and the results are presented in table 4.1.4

# Table 4.1.4 showing the Pre and Post Intervention Scores of the Experimental group and paired 't' test values

Sl no	Variable	Pre		Post		't' test
		Mean	SD	Mean	SD	
1	Social Competence	3.994	.272	4.28	.393	3.35 **

\*\* significant beyond .01 level of significance

Perusal of the table indicates that significant improvement can be seen in the social competence. The scores have changed in the expected direction. Social competence has increased. Hence hypothesis 2 stating "There will be a significant improvement in social competence in the experimental group of children subjected to the intervention" is accepted, as there is significant improvement in social competence of the experimental group after administration of intervention.

To verify if the differences that had emerged were truly because of the intervention and not due to normal changes over time, the responses of the control group were compared, pre and post intervention.



Hypothesis 3 stated: "*Pre-post assessment of social competence will show no significant difference in the control group*". Data was analyzed using a paired 't' test and the results are presented in table 4.1.5

# Table 4.1.5 showing the Pre and Post Intervention Scores of the Control group and paired't' test values

Sl no	Variable	Pre		Post		't' test
		Mean	SD	Mean	SD	
1	Social Competence	3.80	.362	3.78	.450	0.239 ns

ns = not significant

The non-significant 't' ratios obtained for the control group reveal that there are no changes in the scores for these variables, due to time. Thus hypothesis 3 stating, "There will be no difference in social competence in the control group" is accepted.

These results were further verified by comparing the scores of the experimental and control group, after intervention.

Hypothesis 4 stated that "*Post intervention assessments will show significant differences in the experimental and control group on the different indicators*". The results of an independent groups 't' test are presented in table 4.1.6.

# Table 4.1.6 showing the 't' ratios for scores on social competence for the experimental and control group, after the intervention

Sl no	Variable	Experimental	(17)	Control (19)		't' ratio
		Mean	SD	Mean	SD	

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	1	Social Competence	4.28	.393	3.78	.450	3.55**
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\*\* significant beyond .01 level of significance

As both the 't' ratios are highly significant, they indicate that the two groups – experimental and control differ on their scores, after the intervention. Looking at the table, it is clear that the experimental group has higher scores on social competence.

All these results put together therefore indicate that the intervention has been effective in bringing about an increase in the social competence scores of the experimental group. This further proves that the intervention was successful in improving social competence in the experimental group. These findings are supported by Fraser et.al (2005) who report that prevention programs can strengthen social-emotional skills and produce changes in aggressive behavior. Malik et.al (2005) also report that after exposure to an intervention program, there were significant differences in pre and post testing performance on social problem-solving skills of experimental group of boys.

# **5** Discussion

# 5.1 Social Competence

Social competence (composite score) and the sub score of Popularity and Affiliation show significant gender differences with girls being more socially competent and popular than boys. These findings are in the generally expected direction as females are more relationship oriented than males and hence show higher social skills. Pakaslahti, Laura et al (2002) report results, which are similar to the findings of the present study. They state that as a dimension, social popularity correlated positively & rejection negatively with prosocial behavior but not with strategies. Analysis of Gender & Age differences revealed that the girls & the 14 year olds achieved higher scores on both prosocial strategies & behavior than the boys or the 17 year olds.

The sub score of aggression show significant gender, school and interactive effects of



gender and school. The girls are more aggressive than the boys. These findings appear to be contrary as boys are generally expected to be more aggressive. But the findings may be a reflection of the present social scenario in which girls are not as bound by traditional stereotypes as previously. Hence they may be less inhibited and submissive. Private school children are more aggressive. The interaction effects show that the private school girls are the most aggressive, slightly less aggressive are the government girls. The least aggressive are the private school boys.

On the sub score of academic achievement interactive effects of gender and school can be seen. The highest academic achievers are the private school girls followed by government school boys. Next are the government school girls and the least academic achievers are the private school boys. These results again reflect the greater industry that girls show towards academic activities. But the government school boys show more academic achievement than the government school girls. The boys may be applying themselves more assiduously as they perceive education to be the gateway to a better life.

# 5.2 Intervention

Analysis showed that scores on the Interpersonal Competence Scale (Cairns et al, 1995) clearly discriminated the individuals scoring high and low on social competence. Thus individuals scoring one Standard Deviation below the mean on the Interpersonal Competence Scale (Cairns et al, 1995), were selected for the intervention.

A group-based intervention was administered to the experimental group. The intervention addressed areas of social competence. The intervention package was adapted from modules developed by Gerard and Gerard (2002) and Rae and Simmons (2004).

Prior to intervention, comparison of scores on social competence for the experimental and control group had revealed that the two groups were comparable. Post intervention analysis



yielded significant differences between the two groups.

This implies that by addressing the areas of social competence there can be an improvement in the social competence of children. Social competence implies skill in interpersonal relationships whether at home, school or among peers. By gaining an understanding of these skills, a child learns not only how to behave in any situation but also the dynamics of the situation. With perception, comes understanding and with understanding comes adjustment. Other researches, as delineated in the review have also found the beneficial effects of intervention at this stage of life. These results therefore underscore the importance of and effectiveness of intervention strategies to equip our young children with skills to adjust to their environments.

### 6 Summary

### **6.1** Conclusions

- Gender and type of school significantly affect Social Competence. Girls showed more Social competence compared to boys, and Private school students had higher aggressive scores.
- There is significant improvement in social competence of the experimental group after administration of intervention.
- > There is no difference in the social competence in the control group.
- Post intervention assessments show significant differences in the experimental and control group on the different indicators.

# **6.2 Limitations**

- > The study used one source of information Self reports by children .
- > Only students studying State syllabus were studied.

# 6.3 Suggestions for future research



> Reports by parents, siblings and peers could also be included

➤ Comparisons of different streams of Syllabus i.e., ICSE, CBSE may yield further information.

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