# Using Cognitive Model in-Group Work in Improving the Social Skills for Gifted Children

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#### Abstract:

The purpose of this study was to determine the feasibility of using a cognitive model in-group work to improve the social skills for gifted Sixty-four children. children were randomly assigned to an experimental group and a control group (32 children in each group). Thirty-two children's parents of the experimental group were also involved. Each group was asked to complete two forms of measurement. Firstly, a measurement was used to assess the utility of a cognitive model in group work to improve the social skills of gifted children. Secondly, another measurement assessed the parents observations of their children at home during the experiment. Children in the experimental group were introduced to the cognitive model to build their social skills. The intervention lasted for 14 weeks. Children in the experimental group and the control group completed the measures again. The results suggested that using a cognitive model is an effective method to improve the social skills for gifted children.

# Keywords: cognitive model, social skills, gifted children.

### Introduction:

The purpose of the present study determined the feasibility of using a cognitive model in-group work to improve gifted children's social skills. This approach focused on four areas:

- Build (Improve or build) the gifted children's knowledge about social skills.
- Build the gifted children's verbal communication skills.
- Build the gifted children's non- verbal communication skills.
- Build the gifted children's confidence to use their social skills.

The research question arose from an increased interest about gifted children in Egypt. This heightened interest relates to the expanding technological advances that are occurring in the country. Concomitant with these changes, there is a recognition that social skills hold an increased importance in such developments. Therefore, gifted students, who are likely to hold these kinds of positions, need to further develop their social skills. Egypt's concern regarding gifted children began during the early sixties of the last century (Boutros Hafez, 1997). It arose both due to concern for gifted students and the need to assist them to excel academically. He established a school for gifted children at Ain Shams. It was followed by the issuance of Ministerial Decree No. 114 to create classes for academically gifted students in secondary schools. This accounted for approximately five percent of the students. There was a commitment that community institutions and families of these children shared a responsibility for them to excel academically (Adel Abo Elez Ahmed, 2000). It also was that society should devote special resources argued to the development of these gifted young people in the twenty-first century. It was also believed that the goals of education for gifted students maximize young people's would further talent development, opportunities for self-fulfillment and increase society's reservoir of creative problem solvers.(Renzulli, Joseph S,2012,PP.150-159)..

Since this work began, the identification of gifted children has led to various lines of research into superior intelligence. In addition, there are numerous studies focused on understanding the cognitive functioning of these children. (Laurence Vaivre-Douret, 2011). Frequently, parents request advice on how to help their gifted son or daughter learn to get along better with others. Many otherwise extraordinarily bright and gifted young children display a range of deficits in the area of social skills such as with peers, siblings and even adults.. These social skill problems among the gifted are not as uncommon as people like to believe. Intellectually precocious and highly talented children are not necessarily equipped with advanced, or even age-appropriate, social skills. This fact comes as a great surprise to many of the parents of gifted children (Steven Pfeiffer, 2011). Gifted children demonstrate human potential and achievement that far exceed what would be expected based upon their chronological age. A myriad of research studies have explored whether or not gifted children demonstrate greater difficulties in the areas of social and emotional adjustment compared with their nongifted peers (Kimberly A Mula and others no date). It is important to identify opportunities for gifted children to spend time with likeminded peers on a regular basis so they have opportunities to hone their social skills. They need to find peers who share the same

interests, style, level of knowledge, and sensibilities (National Association for Gifted Children, no date).

This researcher saw the importance of improving the children's social skills through a professional intervention program using a cognitive model component in group work through cognitive restructuring, self-inoculation training; open discussion; watching educational films; role-playing; focus on body language; and listening to stories. There are many ways to help the children to improve their social skills such as explaining the basics of good manners and kindness and finding group activities and sports that help bolster social skills (Kirsten Schuder, no date).

The present study was different from the previous studies because it focuses on the development of social skills for gifted children rather than their intellectual abilities. These skills include: how to communicate effectively with others; build confidence; practice these new skills without shame; the ability to debate; how to listen and expresses opinions; understand and use the of body language. The researcher was interested in parents' observations on the success of their children acquiring increased social skills.

#### Methodology:

**Hypothesis:** The main hypothesis for the present study was to explore whether or not there was a positive relationship between using the cognitive model in-group work for improving the social skills of gifted children.

# Sub hypotheses:

1. There is a positive relationship between using a cognitive model ingroup work for building gifted children's knowledge of social skills.

2. There is a positive relationship between using a cognitive model ingroup work for building gifted children's verbal communications skills.

3. There is a positive relationship between using a cognitive model ingroup work for building gifted children's non-verbal communication skills.

4. There is a positive relationship between using cognitive model ingroup work for building gifted children's confidence in using social skills.

**Participants:** The present study was a quasi-experimental study of 64 gifted children, who were randomly assigned to an experimental group

and a control group (32 gifted children in each group. They were between the ages of 10-14 years old, males and females, and attended the Exploratory Center for Science and Technology.

**Procedures:** The present study applied steps of a cognitive model to the group work setting. The present study also used a measurement for gifted children regarding cognitive model components in-group work to improve social skills for gifted children for the experimental and control groups. The researcher took into account the terms of homogeneity between the experimental and control groups in terms of types (boys and girls- students in the same levels at the end of the primary and preparatory level - converged age). The groups occurred at the Exploratory Center for Science and Technology in Alexandria

**Intervention:** The intervention program occurred for 14 weeks (June to the middle of September 2016). The group meetings were held once a week for 2 to 2.5 hours. The first month of the program's meetings were about the building the gifted children's knowledge of social skills. This training involved defining the concept of social skills, exploring meanings of behavior of verbal and non-verbal communication, and the ability to express emotional and social awareness.

Positive role models were presented, as well as stories to increase their knowledge about social skills. In the second month, meetings focused on building the gifted children's verbal and nonverbal communications skills. This segment of the training included the following: defining verbal and non-verbal communication skills: and the effect that an individual's communication has on others. Another focus was on building the children's skills through role-plays, movies, developing personal discussions. skills, exchanging information and experiences and presenting positive role models from some children who supported their peers. The meetings during the third month continued with the aforementioned training areas. The children also showed their paintings, poems, and created possible solutions related to some of their local community issues To build their confidence and their ability to deal with others using social skills, the researcher relied on many of the strategies of group work to improve their social skills (see table 9). The researcher ended the work gradually with the gifted children's group. These children presented some of their artwork, technological, theatrical and poetic activities, to

their teachers at the center as well as their parents. They were presented with certificates of appreciation. **Measures:** 

The questionnaire of using a cognitive model in-group work to improve the social skills for gifted children has four components as shown below: building the social skills for children, which contains 28 items building the children's verbal communications skills, which contain 22 items, building the children's non-verbal communications skill, which contains 19 items, and building the children's confidence to use the social skills, which contains 29 items ,The questionnaire used a Likert Scale The scale included the following options: Agree =3; Almost agree=2; and Not agree=1. The questionnaire was retested after 15 days.

Dime nsions	Questionnaire's component	Cronbach's Alpha	Standardized Cronbach's Alpha	Validity
1	Build the gifted children's knowledge about social skills.	0.949	0.947	0.900
2	Build the gifted children's verbal communication skills	0.932	0.932	0.869
3	Build the gifted children's non- verbal communication skills	0.906	0.906	0.821
4	Build the gifted children's confidence to use their social skills	0.941	0.941	0.885

 Table 1: The values of reliability coefficients for gifted children group of the dimensions of the questionnaire

Source: the questionnaire collected from the research sample.

The questionnaire of parents, who observed their children at home during the daily life situations, to be sure they demonstrated the social skills, had 29 items and it is divided into a Likert Scale. The scale was a follows: (Always)=3; (Sometimes) = 2; (Never) =1. The questionnaire was applied on a sample of gifted children's parents from the exploratory center for Science and Technology who were randomly selected from total gifted children's parent group and then the questionnaire was re-tested after 15 days.

### Table 2: The values of reliability coefficients for gifted children's parents group of the questionnaire.

Dimension	questionnaire 's component	Cronbach's Alpha	Standardized Cronbach's Alpha	Validity
1	Gifted children's confidence to use the social skills.	0.934	0.933	0.872

Source: the questionnaire collected from the research sample.

# Data analysis:

Reliability test: This technique compares the average of grades of the students before and after completing the intervention program based on the same balance for distributing the test grades, and it is known as the terminals comparison as it is based on the strong terminal that we call strong balance power terminal and weak balance power that we call weak balance power terminal, that's mean students who get high grades in the application after the interventions, they have a strong balance power terminal and vice versa (Morsi, 2013, p.83-86This section is unclear.

Analysis of variance (ANOVA) or Fisher test (F-test) was used for comparison of a one way ANOVA used for comparison between more than two means:

Variance Sources	Sum Square	Degree of free	Mean of sum square	F. ratio				
Between groups (Regression)	RSS or BSS	k-1	MSR=SSR/k-1		MSR		BMS	
Within groups (Error)	ESS or WSS	n-k	MSE=SSE/n-k		MSE	_	WMS	
Total	TSS	n-1						

Chi Squared test: Is any statistical hypothesis test where in the sapling distribution of the test statistic a chi-squared distribution when the null hypothesis is true.

Kruskal-Wallis: This non-parametric test was used to test two independent samples or more, or the same sample in different times. This test was utilized to measure the impact of a particular training program. The data used in this analysis are ordinal ranks.(Dominic Salvatore, 1984, pp 151-160)

### Results

The findings of the experiment yielded positive results related to using a cognitive model with gifted children in-group work, and building the gifted children's knowledge of social skills: The analysis resulted in significant changes of statistical proof at the probability level of 0.01 and 0.05

There was a positive relationship shown between using a cognitive model in-group work and building the gifted children's verbal communications skills. Which resulted in significant changes at the probability level of 0.01 and 05.

There was a positive relationship between using a cognitive model in-group work and building the gifted children's non-verbal communications, which resulted in significant changes at the probability level of 0.01 and 0.05.

There is a positive relationship between using a cognitive model in-group work and building the gifted children's confidence to use the social skills: which verified significant changes at the probability level of 0.01 and 0.05.

Analysis of significant difference between the views of the research sample of parents before and after the intervention with their gifted children yielded resulted significant findings at the probability level 0.01 and 0.05 for all sentences.

(The findings section does not discuss the implications of them. That is included in the discussion section of the paper).

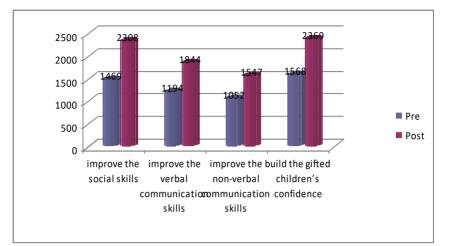
#### Discussion

The study attempted to verify the feasibility of using a cognitive model in-group work to improve the social skills of gifted children. These findings are confirmed by research done Hillary Hettinger Steiner Ema and Martha Carr (2003). Their research indicated the necessity of including findings related to the developmental issues faced by gifted children. Other research that was conducted by <u>Yacoub Fareed Alfarah</u> (2016) indicated there were statistically significant differences among gifted students in their communication skills, due to gender and grade levels at school. Therefore, utilizing cognitive restructuring, self- inoculation training, the application face; and modifying the children's non-logical thought and incompatible behavior patterns are effective strategies with these children through the use of group work. Other strategies include open

discussion, watching educational films, and role-playing, body language, listening to stories, self-expression, active participation, imagination, and mind-body connections. All of these approaches help to improve the gifted children's social skills. Thus, these children are better able to communicate clearly using a wide range of vocabulary that is appropriate for the setting following the group experience. This increased capacity is important since specialists theorize that the spoken word can be difficult for these children because they have the added task of translating the complex ideas in their heads into language that others can understand. This process can lead to abnormal hesitation when speaking, stuttering, and frustration on the part of the children. To help gifted children to develop good verbal communication skills, they need to be encouraged to think through what they are going to say before they say it. Providing them with a variety of ways to express themselves nonverbally is also significant.

Building gifted children's confidence to use their social skills is highly relevant. These skills include: the ability to stay calm in social situations; listening to others; the art of connecting; employing empathy with others' situations; knowing how to build rapport; knowing how, when and how much to talk about yourself; looking directly at others; and smiling.

Table no(3) Comparisons between experimental and control group											
The	Experin group p		control pre-	0 1	Experi group p		U				
components	Scores	Likert Scale	Scores	Likert Scale	Scores	Likert Scale	Scores	Likert Scale			
The first component	1469	45.9	1714	53.6	2308	72.1	1715	1469			
The second component	1194	37.3	1373	42.9	1844	57.6	1375	1194			
The Third component	1052	32.9	1176	36.8	1547	48.3	1216	1052			
The fourth component	1568	49.0	1649	51.5	2369	74.0	1658	1568			



The findings indicated differences between the gifted children's parents observations in pre and post- test the change in the scores are due to the intervention program.

# Limitations:

The researcher has to point out to that the study's results cannot be generalized as they belong to the quasi-experimental studies and findings are indicators of the program's success. Challenges occurred during the program's implementation such as the absence of four children in the second group meeting. This issue was solved by asking the children who attended the meeting to inform those who didn't attend about the information that they missed.

### **Implications for Future Study:**

The researcher believes that continued work with these children is imperative. Social work has an important instrumental role in developing such group work programs for gifted children. **Reference** 

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Table no (4) The Professional intervention program										
Sub- objectives	Topics and activities of professional intervention program	Strategies	Techniques	The role of the social group )researcher(	Participants	Cognitive model's components strategies and professional roles of the group work	Period	Time by Hours		

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Build the gifted children's knowledge about social skills	-Present the intervention program and its goals, pre-test defining the concept of social skills, behavior, verbal and non- verbal communications, the ability to express emotional and social, awareness of signals and body expressions, and the ability to self- control, also include proficiency in the performance of soc5ial activities	Education and edification	Education, enlighten and Exchange ideas	Expert, leader, professional and teacher	The researcher and teachers from the center	Cognitive restructuring, Self- inoculation training, the application face; painting, Watching the educational films, Story, abstract arts, meaningful singing	First month	From 2 hrs To 2.5 hrs Each
Build the gifted children's verbal and non- verbal communication skills	defining the verbal communication skills	Education, convince and training	Communication, clarify, explanation, and enlighten	Guide, expert and teacher	The researcher and specialist in arts	present some positive models and storytelling, role play, workshops, distributing small groups	Second month	From 2 hrs To 2.5 hrs Each
Build the gifted children's confidence to use their social skills	showing their paintings, present their poems, subscribe through small groups to prepare some solutions of the community issues, end the work with the gifted children group gradually	Education and training	Education, Exchange ideas Support, clarify and enlighten	Guide, helper , expert and teacher	The researcher	showing their paintings, present their poems, subscribe through small groups to prepare some solutions of the community issues, group discussion workshop, meaningful singing	Third month + 2 weeks from the fourth month	From 2 hrs To 2.5 hrs Each