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**THE IMPACT OF MODERN MANAGEMENT AND STUDENT-CENTERED ON
THE AMOUNT OF PROGRESS AND DEVELOPMENT OF CREATIVITY ON THE
STUDENTS OF GIFTED SCHOOLS**

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ABSTRACT

Personal and social needs with the development of science and technology and Complicating societies have been complex. Satisfy complex needs in its place need complex science and technology. Achieving Complicated Science and Technology is possible under the shadow of complex educational methods. Therefore, the duty and commitment of the today teacher have been more heavier and complex compared to the past and it is not possible with traditional methods led society and its people toward a complex and advanced development. The purpose of this study is to consider the best teaching methods in line with the needs and demands of students and considering their spirits and talents and specify how much student-centered method could increase the creativity of students.

In this study, 100 female students were studied as the samples and the results of obtained questionnaire from this study were analyzed with statistical methods. The Statistical results show that it can be judged with at least 95% confidence that there is a real and authentic relationship between the student-centered teaching methods by teachers and the amount of progress and development of student's creativity.

**Keywords: Modern management of schools, student-centered teaching, creativity,
progress, Gifted**

INTRODUCTION

Educational systems and activities governing on it is always subject to change and evolution due to the progress of societies and education development itself

is caused by social, science and technology change and evolution; because in a simple society, needs are simple and the method of satisfying needs is also simple.

In such societies, sometimes, the circle of teachable is so narrow that anyone can claim and say: "I learned everything that is teachable." But in the most advanced and complex societies, educational systems development speed is so fast that every few years, the overall change in the structure of the educational system is created, and this change to the extent that people sometimes talk of the society without school. The best reason in the world today is that not all knowledge can be achieved due to the rapid development of science and technology nor can any expert with every feature can be forced to teach or to be a teacher.

Individual and social needs are complicated with advancements in science and technology and complicating societies. Satisfy complex needs in its place need complex science and technology. Achieving Complicated Science and Technology is possible under the shadow of complex educational methods. Therefore, the duty and commitment of the today teacher have been more heavier and complex compared to the past and it is not possible with traditional methods led society and its people toward a complex and advanced development.

The first step to success in the work of teacher is belief in the mission of the teacher and loves the students. If teachers are not interested in people who are involved with them for months and years

and cannot have a healthy relationship with them how they may affect them and cause change and evolution in them.

In addition to have outstanding character, Teachers' knowledge and awareness of the principles and methods of education is another important factor that can make teachers successful in their work. Nowadays, the work of teachers like other professionals needs other specialties. Today teachers without the knowledge of psychology, philosophy and learning principles, methods and techniques of teaching will never be able to properly perform their important task. Today, teachers cannot simply rely on having a diploma or bachelor's degree enters in the class room because the students understanding and their knowledge of the teaching process is the first requirement that each efficient teacher should feel. The teacher should be able to identify students and select learning contents as possible according to their needs and tries to create a favorable training condition due to their ability. In addition to necessary coordination between individual characteristics and educational activities, he should bring teaching and learning for them as a fresh and enjoyable experience.

Another point raised here is the difference between teaching and training which a very delicate and sensitive point is. To answer this point could provide solutions to some

of the problems of the educational system. One of our problems in education is the lack of building space and therefore shortage of classrooms, so compulsory the great number of students are in classes and our educational system has a high and unreasonable distances with standard level. It is clear that in a compact class, there are high individual differences between students and students of a class have a big difference in terms of social development, cultural and learning abilities. This leads to a variety of learning abilities of students, and in many cases cause to cross learning disabilities in students even with normal learning levels.

The purpose of this study was to consider the best teaching methods in line with the needs and demands of students and considering their spirits and talents and specify how much student-centered method could increase the creativity of students.

As far as I have examined, the importance of this study is due to this fact that, there is not any significance research about the impact of teaching method on creativity.

Teaching methods

Student-centered teaching methods (organistic)

A method in which the human is considered as a living creature that is inherently active. In this method, attention to the student and his or her abilities is very

important. According to this method, the purpose of teaching and learning is continuous improvement and training people in order to emerge their potential abilities.

Teacher-centered teaching methods (mechanistic):

In this method, human being is considered as a passive, empty from interaction that is inherently lazy and self-indulgence. According to this method, human activity is carried out by foreign forces. Therefore, the purpose of education is cultural transmission, filling the human mind and shapes his behavior.

The nature of teaching method

Throughout the history of education, theory and practice had given different roles to the teacher in the field of student learning. Some of these roles suggest that teachers should be the dominant factor and behave autocratic. Other roles speak about a democratic approach, and other roles are in favor of non-intervention procedures. During development of teaching methods, there are always cases such this. For example, the ancient Greek philosophers often had used authoritarian methods in their teaching, Socrates had used democratic method and Jean-Jacques Rousseau's Emile method could be called non-intervention.

During the twentieth century, the role of authoritative teacher is also changed to

democratic teacher and teacher-centered methods have become child-centered methods and then participation of teacher and student in the design of learning activities. These changes indicate that the teacher's role is a reflection of the philosophy of education and a position in which he is located. This situation depending on the variables that in it and could be authoritative, democratic or based on the lack of consideration and therefore interference created between the relationship of teacher and student and education is not obtain effective result, if you fail to recognize the fact.

In authoritative methods, teacher is teaching the students with the exercise of power and determination of homework. Homework is indication of authoritative methods of teacher and it means that the teacher determines learning tasks for student and asks him to do them.

In contrast those who know determining a lesson by the teacher as a sign of teacher-orientation and domination and consider it as a threat to democratic values. They believe that students should be involved in determining and designing learning experiences and teachers and students working together organize learning and assessment of learning. This method can be called "common design of student and teacher".

Here, the teacher and student determine the learning activities with collaboration and sharing of responsibility with each other. In this way, the teacher serves as a catalyst that would facilitate learning for students.

LITERATURE REVIEW

After the middle Ages, people discovered the fact that inspirations does not come from the supernatural, but rather they arise from the hidden parts of the brain. In fact, creativity is associated with life, for example Galton, Darwin's cousin with a high IQ do things that was the symptoms of creativity and people are beginning to realize that invention and exploration is not inspired from supernatural.

Innovative people have a large amount of inappropriate physical traits. For example, pale face, tenden cytorickets, short and thin, multi-faceted, tenden cyto stuttering, left-handed and often are sterile. (Khan Zade, 1358, p. 6)

Graham Wall as during his research in the early twentieth century indicated processes close to the creativity into 4 stages as follows:

1. Preparation stage
2. Imperceptible growth stage
- 3-evaluate and discovery stage
- 4- Evaluating and testing stage

Generally from ancient Greece to the present time, none of the scholars from different nations could provide a method to help the innovation process of mind.

The needs of creative people⁴

The teacher must be aware of the needs of their students' creativity. These needs include: curiosity–conflict and competition with issues -accountability, honesty and search for truth- the difference and achieving independence.

1. The need to be curious: one of the natural characteristics of creative students is tendency to ask especially at ages less than one year. Every unknown leads them to question and they are in favor of awareness of obscure and unusual issues, so their questions are frequent and sequential, and the teacher should have noticed this point "Einstein" due to repeated inquiries and his searching mind were blamed by his teachers and endured many problems.

⁴Journal of talented students, the first year Number 3, Fall 71

2. The need to compete and conflict with issues and problems: Creativity involves person into unknowns and access to difficult jobs and at the same time causing the error. This error is the result of honesty and they accept results responsibly. One of the most important factors in achieving high levels of creativity is a strong desire and persistence in curiosity. The childhood era of creative people is full of their infinite efforts on doing tasks and achieving the goals that they have also found it difficult to do. They experiment with care and

respect but occasionally had mistaken and thus were experiencing danger. Curiosity led them be considered as "inconsistent and difficult children".

3. Accountability: a creative child is always in the world of thoughts, beliefs and his or her problems, and is unaware of the things that happen around him.

4. The need for honesty and search for the truth: truth is an important component of the personality of a creative person. Child may does not act honestly with environment due to poor conditions in the home and school.

5. The need to be difference and independence: student who is different with others, even if had a compromise with the environment and a sense of interest and attention of parents, not see himself or herself free and feel the pressure. Such a person might be curious, determined and be adventures. But the interesting point is that parents and teachers do not want students to have a difference and in experienced teacher can easily destroy creativity of student.

The role of teachers in believing the students' creativity categorized in 2 stages:

A - How to teach with problem-solving method: This method is an indirect teaching method. Teacher guides students and with using a regulated program should set him or her in the path of discovery and innovation. Teachers are obliged to provide

necessary information and facilities available for student's research. Learning through research and investigation with practice is done and therefore learning is suitable for students and meaningful. Provision of necessary facilities and freedom is one of the basic pillars of learning and all creative processes such as verbal fluency, flexibility and originality are involved in research method and problem-solving. Basic contents that must be considered in the learning are as follows.

1. By creating experiences in key areas, students could be made interested in problem-solving approach and evaluation concept, location or new ideas. In this area, the use of learning centers with weeping powers to search for a new job is a good start.

2- Creation of operation conditions for the beginner researcher, providing facilities such as games, teaching aids, reference books, discussions in order to train students to explore and invent.

3- Availability and access to enough resources such as external references, travels, lectures and suitable games for students in order to respond the questions.

4- Provision of different laboratory equipment for testing and encourage students towards production.

(B)Creative thinking: It can strengthen the children's desire to test new ideas in the way of creative thinking. The school

environment should be based on the needs and interests of students. it means, an environment which leading them to different activities. It protects children's interests and at the same time focuse d on divergent thinking skills. As a result, the warm environment is resulting which can be considered the origin of creative thinking and a good teacher with necessary awareness and knowledge tries in creating an appropriate environment for growth of . To create an appropriate environment, teacher should consider the following points:

1- Giving students the opportunity to be creative and fertile ideas.

2-Friendly environment is created in the way students and teachers involved in the work.

3- Friendly environment is created in the way that students and teachers involved in activities collaboratively and both learn and reach maturity.

School role in the development of students' creativity

Ranging from consulting teachers, principals, guidance, moderator, teachers and others have important responsibilities to advance the students' creativity and they try to learn new ways of teaching. A strong and support team can create a feel of security in teacher. Nothing is worse than, while a principal in a learning environment is getting the way a lone and does not care

about teachers and students. He must have the co-operation with of all teachers and even students. Thus, the school will be a center for learning and developing creative ideas.

In addition to complete attention to students, principal should have in mind respect to teachers and colleagues. He or she should be interested in his or her work and recognize his or her responsibility and be a good teacher and psychologist.

There are school personnel to help students, so everyone should know how to deal with students. New plans of teachers must be supported by principals and other officials and theoretical and practical resources should be available to them to better develop better learning methods. It is better a system have been created in school and the work of all have been evaluated. A school with compound program, committed members, responsible teachers is the best environment for development of students' creativity:

A good school has the following properties:

1. Friendly environment in which the diligent efforts of each person is

STATISTICAL ANALYSIS

The results of completed questionnaires is given below:

I	X	Y	X ²	Y ²	XY	X	Y	X ²	Y ²	XY
100 samples	1421	3247	85763	424655	184286	20/5	47	5010/17	3023	-234/94
Total	5602	12800	330254	1660390	721080	0	0	16429/96	21990	4024

Pearson correlation coefficient was used in this case which the formula is as follows:

appreciated.

2. The scientific environment for teaching is provided.

3. The atmosphere full of peace of mind and freedom is governed.

4. Environment in which learning opportunity and accountability is available.

RESEARCH METHODOLOGY

Statistical population to investigate the effect of student-centered teaching method in the development of creativity and academic achievement of students has been studied. The statistical population in this study was composed of 100 female students in Alborz province, which randomly were selected from the students.

The average age of students was 16 years. The survey instrument was a 17-item questionnaire designed by the researcher who studied teaching methods, and a 60-question test to measure creativity. For statistical analysis, the Pearson correlation coefficient was performed.

$$r = \frac{SP_{xy}}{\sqrt{SS_x \cdot SS_y}}$$

$$SP_{xy} = \sum xy - \frac{(\sum x)(\sum y)}{n} = \sum xy$$

$$SS_x = \sum x^2 - \frac{(\sum x)^2}{n} = \sum x^2$$

$$SS_y = \sum y^2 - \frac{(\sum y)^2}{n} = \sum y^2$$

Descriptive statistical calculations

-To calculate the average scores (student-centered teaching methods), the following formula is used.

$$\bar{X} = \frac{\sum x}{n}$$

$$\bar{X} = \frac{5602}{100}$$

$$\bar{X} = 56 / 02$$

-To calculate the average scores (creativity) , the below formula is used.

$$\bar{Y} = \frac{\sum y}{n}$$

$$\bar{Y} = \frac{12800}{100}$$

$$\bar{Y} = 128$$

The following formula is used to obtain deviation scores:

All scores are calculated and presented in tables.

$$x = X - \bar{X}$$

$$y = Y - \bar{Y}$$

RESULTS

After careful calculation of all scores and insert them into tables and ensure the integrity of them, the correlation coefficient obtained from the following formulas:

$$r = \frac{SP_{xy}}{\sqrt{SS_x \cdot SS_y}}$$

$$SP_{xy} = \sum xy - \frac{(\sum x)(\sum y)}{n} = \sum xy$$

$$SS_{xy} = 721080 - \frac{(5602)(12800)}{100}$$

$$= \frac{72108000 - 71705600}{100}$$

$$= \frac{402400}{100} = 4021$$

$$\sum xy = 4024$$

$$\begin{aligned} SS_x &= \sum X^2 - \frac{(\sum x)^2}{n} = \sum x^2 \\ &= 330254 - \frac{(5602)^2}{100} \\ &= \frac{33025400 - 31382404}{100} \\ &= \frac{1642996}{100} = 16429.96 \end{aligned}$$

$$\sum x^2 = 1642996$$

$$\begin{aligned} SS_y &= \sum Y^2 - \frac{(\sum Y)^2}{n} = \sum Y^2 \\ &= 1660390 - \frac{(12800)^2}{100} \\ &= \frac{166039000 - 163840000}{100} \\ &= \frac{2199000}{100} = 21990 \end{aligned}$$

$$\sum y^2 = 21990$$

CONCLUSION

There is a meaningful relationship due to the fact that the correlation coefficient calculated from the standard table is 0.212 that is greater than reliability level 0/95. This means that it can be judged with at least 95% confidence that there is a real and authentic relationship between the student-centered teaching methods by teachers and the amount of progress and development of student's creativity. Because the algebraic sign of the correlation coefficient is positive, the type of relationship is direct. Therefore, it is becomes clear whatever the method of the teacher is closer to student-centered approach; it is more effective in

the development of creativity of female students.

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