Original Article

New Method of Teaching in Primary Schools

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A B S T R A C T

In this study, new teaching methods in primary schools have been investigated. Although the use of old and traditional teaching methods such as question and answer method, lecture, demonstration, etc. still has its own uses, but with the advancement of science and technology, there is a need to use new teaching methods are felt more and relying only on traditional teaching methods will not have the necessary effectiveness and efficiency in the teaching and learning process. In modern methods and education, students' activity in class and their all-round growth is more important. Traditional teaching methods were the result of a one-dimensional view of education, and the teacher was considered as the only provider of information and its transfer to the student. In these methods, the emphasis was on obtaining a better situation in the output of students. Concerning the continuous changes and progress of knowledge every day, and on the other hand, the increasing importance of individual capabilities along with scientific information, teaching methods in the elementary school must be changed. In the following, we have explained some of the best methods of teaching elementary school, which you can learn using various workshops and training courses. On the other hand, it should be noted that despite the advantages of these methods, a single model cannot be used in education for all courses.

Introduction

Being a primary school teacher is a hard job, but at the same time it is a rewarding job [1]. Your enthusiasm, ideas, and curriculum help learners learn from the very beginning. Accordingly, it is very important for you to adopt the teaching method that works best for your responsible learners. Of course, you are working with learners from different communities, religious, ethnic, and economic backgrounds, and no two students learn the same way [2]. Especially when working with learners, it is difficult to maintain focus, manage behavior, and encourage active participation. One of the most difficult parts of developing as an elementary teacher is learning how to choose the correct teaching method for the classroom [3], but what benefits will the use of new teaching methods bring to the teacher and student?

1- The classroom environment will become monotonous and boring, and the learning process will be more attractive for students [4].

2- By participating in small groups, students practice various skills such as reading, writing, listening, experimenting, analyzing, reasoning, comparing, collaborating, and other communication skills [5].

3- Students turn their energy into activity and creativity.

4- Instead of a mere speaker and theologian, the teacher becomes a facilitator and observer and has the opportunity to constantly control the students' learning and get feedback.

5- Participation in the learning process and cooperation in peer groups helps to control negative emotions and increase students' self-confidence [5].

Soldier teachers are on the front line of education and it is necessary for them to be familiar with the most modern scientific weapons of the day, i.e. different modern and active teaching methods and to know which method to use in which educational situation. Teaching is not easy. In education, the teacher deals with many different factors that can be controlled to create an environment in which effective learning takes place. These various factors and in general the society in which the teacher and the student live, affect the quality of the teacher's teaching. It is obvious that the teacher cannot control all the mentioned factors [6]. Therefore, in creating a suitable learning situation, the teacher is not able to change and control many factors, but to some extent, he/or she can improve the quality of his teaching by setting clear executive goals and adopting appropriate teaching methods and preparing and using the necessary equipment and establishing a healthy relationship with his/her students, change, develop, and progress.

History of teaching methods in world education

Teaching and learning methods in the world have a history as long as human history. In the distant past when education and training was limited, primitive tribes learned ways to obtain food, clothing and shelter with scientific methods, religious, moral, and social education was also done by participating in tribal celebrations. Therefore, the method of learning in this period of human history can be called the imitative and scientific method. In religious education, a class called clerics gradually emerged, who were considered the first teachers in human history, and for centuries, education has been a special right and under their supervision [8]. With the emergence of the mentioned class and the invention of writing and the compilation of religious literature, educational methods and theoretical education were changed over the scientific education that was done at home and the theoretical education that the clerical class was responsible for while performing religious ceremonies. From around the 5th century BC to the beginning of the 20th century AD, in the civilized countries of the world such as Europe and China, the teaching of language, literature and religion was emphasized [9].

In Europe, until the first century BC, the teaching of language and literature was carried out in the form of rhetoric or expressions and also in the Socratic Method, and from the time of Socrates until 800 years later, the method of teaching western language and literature remained stable. In Europe, the main goal of language and literature education was to develop oratorical skills, which were developed in three areas: grammar, style of expression, and eloquence [10]. History of language and literature taught moral virtues such as respect for others and social responsibility. The teaching model that the teacher chooses in this field according to various conditions and factors has a direct impact on the students' learning process, their impression of their teacher, creating a general view of the school and lessons, and even a great effect on the student's general view of the science and self-learning. Whatever model rules and teacher's teaching process is appropriate; it will have a positive effect on the future and future life of the person [11].

All kinds of new teaching methods

Active teaching methods: Active teaching method is actually a student-centered teaching method or an interaction-based teaching method in which the responsibility of learning is placed on the students. In the active teaching

method, the teacher appears in the role of a facilitator and guide who paves the way of teaching and learning for students. In this case, instead of one-sided presentation of information, methods are used that encourage students to participate and cooperate more in the learning process [12]. There are different types of active teaching methods, some of the most important of which are:
  (1) Role playing teaching method,
  (2) Group discussion teaching method,
  (3) Method of teaching problem solving,
  (4) Teaching classmates, and
  (5) Project teaching method.

Problem-oriented teaching method

Problem-oriented teaching method is one of the new teaching methods in which the teacher tries to make students think and research by creating a new question or situation [13]. Scientific tour teaching method, laboratory teaching method, exploratory teaching method, brainstorming are examples of problem-oriented teaching method.

Technology-based methods

Technology-based teaching methods are actually methods in which the teacher uses one or more technological tools to teach a topic to students [14].

Reverse teaching method

Reverse class or reverse teaching method is one of the new teaching methods that try to use the technological facilities that students deal with every day for a more exciting and effective learning experience. In the reverse teaching method, the teacher provides some educational content such as video, audio, image, or text files in advance to the students. Before the class, students should watch these movies, study the material, and do the necessary research, to get a basic understanding and knowledge of the subject. After this stage, the class is held and the class time is dedicated to doing homework, solving problems and discussing with the teacher and classmates [15].

Using a 3D printer in teaching

Using a 3D printer makes your classrooms much more fun and attractive. At the same time, it provides students with an opportunity for practical experience of subjects and better learning. This method greatly increases the level of interactions in the classroom. 3D printing gives students an understanding of the real world and ignites their imagination. When students can hold anatomical models to learn about the human body, or see models of famous buildings and explore their structure, studying and learning will be much easier.

Game-based teaching method

Other technology-based teaching methods include game-based teaching method, use of multimedia tools, and blended learning [16].

Personalized teaching method

Although the final goal in teaching each subject is clear, the learning journey for each student can be different from other students. While using one teaching strategy works perfectly for some students, the same method may not be very effective for another group of students. For example, using the group discussion teaching method for extroverted people can be very useful and become a nightmare for introverted students. Therefore, in such a situation, using a personalized teaching method can help the teacher.

Conference method

This method is different from the lecture method because in the lecture method, the teacher is responsible for giving information to the students. While in this method, information is collected and presented by students. This method can determine how much students know. This method creates an active situation for learning. The teacher's role in the conference is simply to guide and manage the meeting and prevent discussions that lead to deviation from the conference topic and its logical procedure. This method is applicable for all subjects and different ages.

Multi-sensory (mixed) method

using this method requires the use of all senses and the learning process takes place through all senses. Through the application of this method, one can understand the contents and skills, establish a more effective communication, and generalize the skills and contents from one situation to another. In multi-sensory learning, all senses are generally used. In other words, visual learning is 75% of our total learning through seeing. Auditory learning is 13% of our total learning through listening. Touching is 6% of our total learning through touch. Tasting is 3% of our total learning through tasting, and smelling is 3% of our total learning through smelling [16].

Project method

The project teaching method allows students to improve their management, planning, and self-control. In this method, students can choose a subject according to their interest and actively participate in the completion of that subject. Therefore, in this method, students learn how to do a lesson in a regular and step-by-step manner. This method strengthens students' self-confidence. Because there is a proper educational relationship between them and the teacher, and finally, this method strengthens cooperation, sense of responsibility, work discipline, patience and tolerance in doing things and tolerance of others' opinions and basic research skills in students.

Retelling method

Retelling is a method used by the teacher to encourage the learner to memorize poems, rules, formulas, definitions and terms. In retelling, the teacher usually expects the student to explain the topic word by word. The method of retelling the material is often used in classes, but unfortunately, it does not necessarily indicate the realization of learning. The use of this method only shows that the student has memorized the desired material. Sometimes the teacher's goal is basically for the student to remember a subject, to use it to

understand a certain concept. In this case, using this method may be useful [5].

The method of scientific excursion

Scientific excursion allows students to obtain scientific analysis by observing nature, events, activities, objects, and people. In the scientific tour, students can better understand the concepts discussed in the class by observing the facts, and the teacher can use this method to arouse the curiosity of the students about a particular subject. In some cases, scientific circulation can be used to collect the necessary information to conduct an experiment or a project [9].

Demonstration teaching method

Demonstration teaching is one of the new and creative teaching methods in which educational aids are used for experimental testing, demonstration, and image to make the content more attractive and active teaching. The capabilities of this method in using games and songs make it suitable for step-by-step use of materials, especially in the first to third grades of elementary school. Teaching abstract concepts, experimental materials and second language to children becomes easier by using the demonstration teaching method. In this method, the teacher can mix new concepts, or with the participation of students, explain what they already know through demonstration. In the demonstration teaching method, students learn to implement what is taught theoretically and master the concepts. It is important to provide the student with the opportunity for experience, trial and error as much as possible in this process [17].

Advantages of demonstration teaching method are as follow

(1) Touching the concepts in a real way.
(2) Strengthening learning and understanding of content.
(3) Indirect teaching of course material.
(4) Creating motivation and passion for learning.

(5) Creating healthy competition between students.

(6) Creating diversity and increasing mobility in the classroom.

(7) Strengthening students' self-confidence (18).

(8) Ability to repeat and practice and acquire skills.

Limitations of the demonstration teaching method are as follow:

(1) Need for resources and equipment.

(2) Need more time.

(3) It is difficult to control the class and students.

(4) Possibility of wrong learning in case of unprincipled implementation.

(5) The possibility of not understanding the connection between the presentation and the learning objectives.

Exploratory teaching method

Discovery method is one of the new and creative teaching methods, which is the simplest form of research-based learning. In this way, students should investigate a subject or issue using current tools, obtain information, interpret causes and effects, and draw conclusions about it. The teacher should provide all the necessary resources and information to the students, but his guidance should be minimal, but the teacher can first explain the path to the answer step by step for the students. Furthermore, during the activity, offer suggestions, questions, and necessary tips. In this way, a lot of confusion or creating a framework for students is avoided. This method often has a better response in the form of a group [15].

Advantages of exploratory teaching method

Among the benefits of the correct implementation of this method, the following can be listed:

(1) Presenting topics that are intrinsically stimulating and passionate.

(2) Carrying out meaningful and active activities in the direction of discovery.

(3) Acquiring research skills.

(4) Increase thinking power.

(5) Learning skills and methods on the spot.

(6) Encouraging students to be independent in learning.

(7) Improving the power of remembering things due to active learning.

(8) Improving teamwork skills [6].

Disadvantages of exploratory teaching method

The following are disadvantages of exploratory teaching method:

(1) Being time consuming

(2) The need for a resource-rich environment and access to resources.

(3) Inappropriateness for students lacking sufficient knowledge in analysis and interpretation.

(4) Students' activities cannot be effectively monitored.

(5) In this method, activity is not necessarily equal to deep learning.

(6) Not applicable for children with learning disabilities.

(7) Need training and practical experience and workshop for trainers and teachers.

Exploratory teaching method

The main purpose of this method is to teach basic education and strengthen the processes of inductive thinking and scientific reasoning in new students. In this method, everything is given to the students in the form of a problem, so that they can finally reach a summary and conclusion through thinking, exploring, researching and collecting evidence. In this method, in addition to learning problems and acquiring knowledge, students get to know and practice the skills of analysis, critical thinking, creative thinking, and scientific method. The action and reaction between the student and the teacher in this cooperative teaching method and any kind of comment, question or expression of opinion is free [11]. In the exploratory teaching model, the teacher plays the role of a guide or a facilitator and should not directly provide data and information. In fact, in this path, no one is a pure receiver or receiver of information. On the other hand, exploratory

education resources are not limited to textbooks and students should use all other resources such as laboratories, movies, museums, and the Internet. The exploratory teaching method includes 5 main steps:

(1) Engaging the student with a problematic situation.

(2) Gathering information.

(3) Testing information.

(4) Organization of information.

(5) Analysis of exploration flow [19].

Advantages and limitations of exploratory teaching method

The advantages of this method include the following

(1) Applicable to all ages and educational levels.

(2) Enhancing the methods and perspective necessary for an inquisitive mind.

(3) Independence in learning and problem solving.

(4) More self-reliance and self-control.

(5) Arousing excitement and discovering the true interest of students.

(6) Teaching teamwork in school and strengthening the spirit of cooperation.

(7) Strengthening and improving the ability to tolerate ambiguity and accept differences in attitudes.

Limitations of exploratory teaching method

Exploratory teaching method also has limitations which are:

(1) Need more time.

(2) Need tools and resources for exploration.

(3) The need to train and gain experience for teachers.

(4) Limitations on effective implementation.

Collaborative teaching method

This method generally refers to the participation of students in class and group learning. The collaborative method can be used in parallel with other methods. The main basis of the collaborative teaching method is the involvement of students in the learning process

and in the group format. The students are divided into small groups and in each group the subject matter is discussed and exchanged. At the end, each group should give their summary of the topics to the rest of the class. In this way, students have a more active role in learning than traditional methods. At the same time, the teacher can encourage students to investigate and delve deeper into the material by asking deeper questions and involve them in a positive competition. The important point is that any method using small group formation is not considered a cooperative teaching method. Heterogeneity in the characteristics of the students of each group, participation based on ability and interest, non-superiority of groups over each other, and correct evaluation are requirements for the correct implementation of this method.

Advantages of cooperative teaching method

These advantages are as follow:

(1) Learning to interact and cooperate in a team format.

(2) Using the different capacities of each person in the group.

(3) Learning and practicing conversation skills.

(4) Free expression of opinions.

(5) Increasing resilience in the face of opposing opinions.

(6) Strengthening criticism.

(7) Increasing the sense of responsibility towards others.

(8) Increasing enthusiasm for learning and the spirit of exploration [16]

Limitations of the collaborative method

These limitations also include the following:

(1) Need more time.

(2) Intragroup and intergroup behavioral challenges.

Discussion

Learning in a group and through cooperation will help children learn a lot. This is through the cooperation of an educational format or framework in which heterogeneous groups of

students are formed by the teacher and engage in scientific activities. The ultimate goal of this is positive correlation, individual responsibility, face-to-face interaction, development of social skills and group processing. One of the most important characteristics of this type of learning is the existence of heterogeneous groups that have different and diverse information and abilities. This difference of people makes learning in the group more efficient. In these groups, the teacher talks about the important goals of the lesson, his expectations from the students, and the main contents of the lesson. After that, the students are given the opportunity to practice and work in their groups on the materials or activities provided to them at a certain time, and finally the teacher evaluates the work of the groups [4]. In an article published in the Journal of Educational Sciences of Shahid Chamran University of Ahvaz, a comparison of the effect of teachers' Persian teaching methods on increasing the reading literacy and comprehension of the 4th grade students in Tehran has been done.

The results indicate that there is no significant difference between traditional and active teaching methods in increasing the level of reading literacy and understanding of course materials. The interaction effect between teaching patterns and gender on students' reading scores has been significant in such a way that no significant difference was obtained between active teaching methods and traditional methods regardless of gender. The boys who were trained with the traditional teaching method performed the best in the boys' group, but the opposite happened with the girls. The girls who were trained with the traditional method had the weakest performance among the girls. The biggest effect of gender is related to the performance judgment model, in such a way that in the group of girls, it has the best performance after the model of group efficiency, but in the group of boys, the lowest average is related to this model [14]. In the article presented in the biannual scientific-specialized research in the curriculum, the method of teaching lateral thinking in the curriculum of the elementary school has been examined. In the mentioned article, first, generalities about thinking in schools were proposed, and the necessity and importance of developing thinking and reasoning in the national curriculum was brought up, and then the definition of thinking from different viewpoints, investigation and lateral thinking from Edward Dubono's veiwpoint was defined, and a comparison was made between traditional thinking and thinking. It was done laterally, and then lateral thinking techniques including po, geometric shapes and quotas, plans, and doubts about assumptions were described and examples were given for them to be used in the classroom in the primary period [13].

Methods to strengthen the creativity of elementary school students

In primary school classes, one should try to strengthen students' creativity. Students are naturally creative, and a good and experienced teacher leads the class in a way that not only does not destroy creativity, but also strengthens it. The following methods are useful for enhancing the creativity of elementary school students. A single method and model should never be used in teaching different subjects. Do not create stereotyped thoughts in children, and questions and answers should be free in the classroom, not stereotyped and limited [17].
1- Storytelling and story writing.
2- Biography writing and essay writing.
3- Artistic matters such as painting.
4- Telling the history and life of elders.
5- Use of various teaching methods.
6- Creating opportunities for exploratory learning.
7- Encouraging children's creative achievements.

Conclusion

The purpose of familiarizing with the new methods of primary education and using the best type of it according to the educational level and ability of the students is to make the new students familiar with the lessons and the school. The purpose of implementing these

methods is not only to learn course topics, but by using new methods of primary school education, it is possible to find talent and strengthen the individual and social skills of the students of this school. Demonstration, exploratory, active, exploratory, and cooperative teaching methods are considered the most common and most efficient methods of elementary education. The mentioned methods are the most important and effective types of primary teaching methods that can include many other diverse methods. These elementary teaching methods play a significant role in making students more familiar with the educational environment and the dynamics of the learning environment. Knowing and applying new methods of elementary teaching helps both students and teachers to get better feedback from their educational activities. The purpose of these methods is not only focused on the curriculum, but also brings many social and personal skills to the students and pursues the high goals of education. The most important social activity is education. Education takes place in the shadow of education and with the presence of teachers. Thus, education has a special place in society. Teachers are one of the main pillars of this group, and this important task is their responsibility. Primary education is the most sensitive and important educational period because the character and development of children is formed in this period. Teachers teach with teaching methods. Teaching methods help the teacher to teach a subject according to the objectives and according to the students.

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