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### DEVELOPING STUDENTS' ABILITIES THROUGH TEACHING WITH PEDAGOGICAL TECHNOLOGIES

Gulomova Nozima Xotamovna

PhD, associate professor at the Department of Fine Arts and Engineering Graphics at National Pedagogical University of Uzbekistan named after Nizami

Botirova Iqbolxon

Student at TS201 group in Fine Arts and Engineering Graphics at National Pedagogical University of Uzbekistan named after Nizami

#### ABSTRACT:

The article discusses teaching students how to draw drawings, read them using different methods, and approach them didactically, as well as developing students' abilities through the use of pedagogical technologies to increase their activity in the classroom while improving the knowledge and skills they acquire in technical drawing.

**Keywords:** technical drawing, environment, space, form, pedagogical technology, ability, implementation, continuity, efficiency, graphic literacy.

At present, carrying out a number of studies related to the application of pedagogical technologies in the education system remains one of the urgent issues. Indeed, the requirements placed on students in today's educational process are fundamentally different from those of previous periods. Major tasks such as nationalizing education, basing it on humanistic principles, studying the world education system, and improving pedagogical processes through the use of new foundations are being implemented and developed. It should be especially



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emphasized that this direction of education functions in the same way as a number of other subjects.

The images created by our ancestors through various methods have found expression in many places throughout our country, on the walls of different caves, on the surfaces of large stones, in certain parts of ruined buildings, in household and decorative objects, and in various artifacts preserved underground. Today, these are being used in technical drawing as national values.

At present, it is important to teach the younger generation about such national and cultural heritage of our ancestors through the subject of technical drawing, to improve professional mastery, and to awaken their interest in this subject. The professional qualities most commonly found in teachers include pedagogical knowledge and thinking; mental and physical health; love and affection for students; empathy; creativity; pedagogical observation and awareness of students' needs; reflective ability; extraversion and cheerfulness; the ability for independent learning; enthusiasm; responsibility and accuracy; and high professional mastery. Technical drawing lessons are often imagined as difficult and boring. In fact, if modern pedagogical technologies are applied during the lesson process, this subject can become one of the most interesting and creative activities. The main focus here is on shaping the student as an actively thinking individual who is able to test ideas in practice. In a lesson organized on the basis of pedagogical technologies, the teacher does not limit himself or herself to simple explanation. Instead, the teacher encourages students to engage in independent inquiry. Thus, through the application of pedagogical technologies in technical drawing lessons, students listen to each topic with interest, even previously inattentive students become more active, and their abilities develop.

Professional qualities can be defined as the individual characteristics that enable a person to successfully study for a certain profession and carry out professional



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activity. Professionally significant qualities are the individual dynamic characteristics of a person, certain mental and psychomotor traits, as well as the set of physical and intellectual qualities required from a person in a specific professional activity (Figure 1).

First of all, interest, which is an individual characteristic of the person, influences all of his or her processes. The growth of certain traits and abilities in a person is also determined to a certain extent by his or her interests and inclinations. Interest is also extremely important for a person's work activity. This is because it motivates a person toward labor activity, adds energy to enthusiasm, encourages initiative and active movement, that is, social activity, creativity, and the creation of innovations.

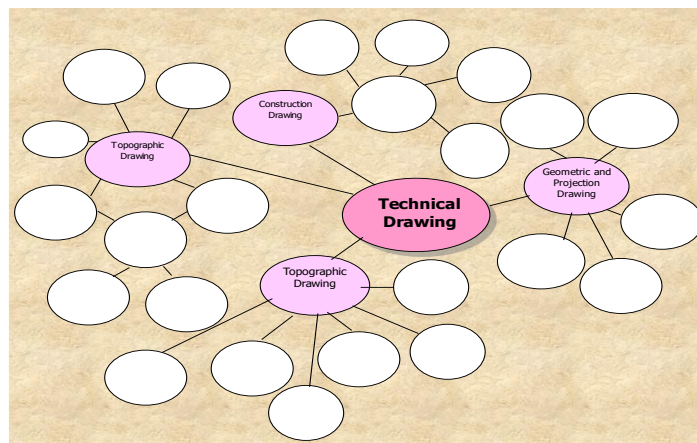


Figure 1

Interest is also of great importance in the educational process, since it mainly leads students, through academic subjects, toward mastering their future profession. Therefore, every teacher must be able to awaken interest in their students.

When the **cluster method** is used in class, the following results are achieved in students:



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- stability of attention is ensured;
  - students' aptitude is formed and their abilities develop;
  - students' spatial imagination develops;
  - harmony in students' sensory analyzers is ensured;
  - students' mastery of the subject and their attention improve.

Students of general secondary schools accumulate knowledge and experience, become acquainted with various spheres of life and types of activity, meet people with diverse interests, and, as a result of becoming familiar with different professions, gradually develop interest and professional mastery.

Of course, a properly organized educational process cultivates interest in students. The teacher should implement this process on the basis of new technologies. This may include conducting lessons through the **cluster method** by explaining key concepts in branched networks, appropriately using problem situations related to the topic, and organizing test assessments.

It is also effective to use the **cinquain game**, in which several words related to the topic are written on the board in mixed order, and within a limited time students form simple and complex sentences using those words. In every type of activity, students who participate actively should be encouraged in a timely manner through praise, approval, support, and by presenting them as examples to others. Linking theory with practice in the lesson, using voice tone effectively and expressively, and rationally applying advanced pedagogical technologies, nontraditional, interesting, active, and innovative teaching methods all help to arouse students' interest in technical drawing. Later, this process increases their professional interest and mastery.

When the **cinquain method** is used in class, the following results are observed in students:

- their activity in the educational process is managed properly;



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- they are encouraged toward active participation during the lesson;
- they are stimulated to think during the lesson process;
- their activity in practical lessons increases;
- their aptitude is formed and their abilities develop in solving drawing problems.

Constructing a **cinquain** is considered a convenient method for complex topics, and it allows students to express their ideas freely during lessons (Figure 2).

### EXPLANATION THROUGH THE “CINQUAIN” STRATEGY

**Line 1:** Transmission (*one noun*)

**Line 2:** Transmission; rotational or translational motion

**Cinquain** (Fr. “*five lines*”) is an unrhymed poem that helps synthesize information, that is, form integrated ideas on the basis of separate pieces of information. Through it, information related to the topic being studied (concept, phenomenon, event) is collected. Each student has the opportunity to express this set of information, presented in the form of an unrhymed poem, in their own words through different versions or perspectives. Constructing a cinquain is the skill of expressing complex ideas, feelings, and emotions clearly and vividly through only a few words. This process helps learners master the topic more thoroughly and understand information more deeply.

Figure 2

For this purpose, it is necessary to organize the teaching of technical drawing on the basis of the above-mentioned technology. In other words, teachers should be prepared to conduct lessons on the basis of new pedagogical technologies, seminar-training sessions should be organized for teachers on the use of new pedagogical



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technologies, teachers who teach on the basis of new pedagogical technologies should be encouraged, and their best lessons should be popularized and regularly analyzed at pedagogical-methodological councils for each subject, including technical drawing. In addition, “master classes” on the foundations of new pedagogical technologies should be regularly organized by experienced teachers for every subject, including technical drawing. This will ensure the continuity and effectiveness of education. In general, the use of pedagogical technologies in technical drawing lessons makes the educational process more effective, interesting, and meaningful. Most importantly, this approach develops students’ creative thinking and creates a foundation for them to become highly qualified specialists in their future profession.

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