TECHNOLOGY BASED ON AN EFFECTIVE SYSTEM OF LESSONS IN MATH

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Abstract. *The novelty of each lesson, which includes mechanisms of activity in terms of specific motivating, satisfying, guiding and cognitive activity, that is, it must have its own aspect. In this work, we will discuss an effective lesson - a lesson of questions and dilemmas, which is one of the most special and interesting lessons.*

Key words. *Lesson, class, system, education, high, student, work, level, method, activity, problem.*

Technology based on *an effective system of lessons* [1] is aimed at solving the following problems:

- creating and ensuring students' interest in learning and a high level of independent mental activity;
- purposeful and economical use of lesson time;
- various methods and means of education;
- methods and training of students' mental activity;
- formation and development of independent control mechanisms of a person predisposed to education;
- a high level of positive interpersonal communication between teachers and students;
- the volume and strength of knowledge, skills and abilities acquired.

Each lesson should have its own novelty, that is, its own aspect, which includes mechanisms of activity in terms of motivating, satisfying, guiding and cognitive activity.

An effective lesson is a lesson in questions and hesitations, innovation and discovery. Its terms are:

- theoretical information should be given at a high level, and when asked, it should be asked by ability;
- the principle of connection of theory and practice: teaching the application of knowledge in unusual situations;
- principle of convenience: the student must act within his capabilities;
- teacher skills to find these opportunities, to correctly determine the level of complexity [2];
- principle of awareness: the learner must know what he or she is learning (before studying a topic, he should browse the textbook to determine why and what he will learn);
- the focus is on the content, not on memorization, and the content should be at the center of the issue;
- the principle of consistency in mastering knowledge: the basics of memorization are given;
- thinking should prevail over memory, educational information should be divided into large chunks, a large amount of information should be provided;
- the principle of demonstrativeness (exercise of observation skills);
- principle of alternation (separation of the important, taking into account the time).

The main aspects of high-performance training technology:

- interest in learning, organization of independent mental activity of the learner and high-level retention;

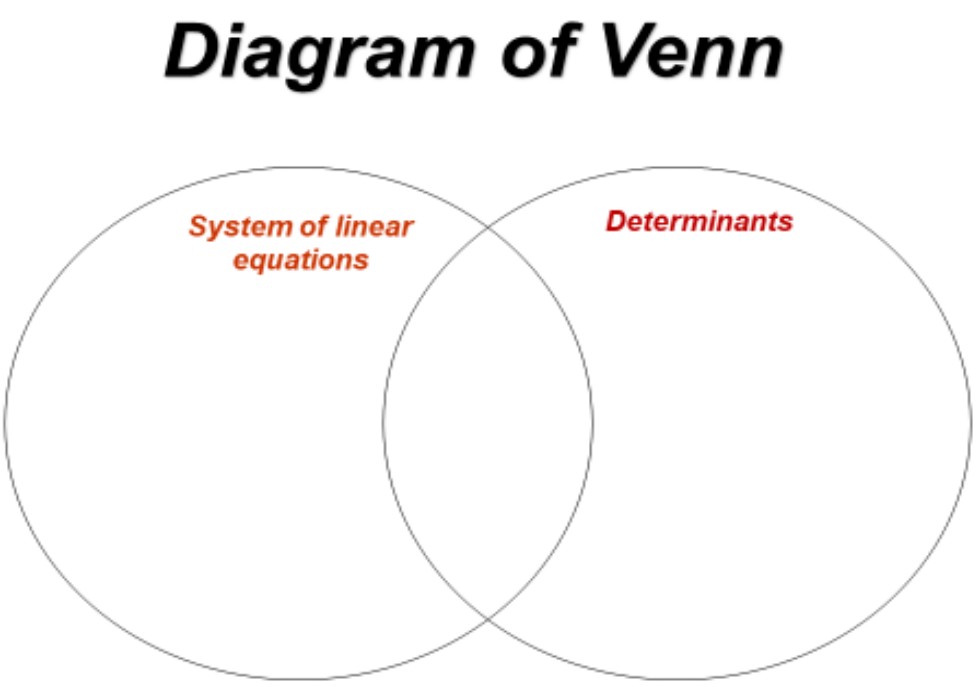
- economical and targeted spending of training time;
- application of various methods and means of education;
- formation of methods of mental activity of learners and training;
- contribution to the formation and development of the student's personal qualities, primarily the mechanisms of self-regulation of the person oriented towards education;
- highly positive level of personal relationships between teachers and students;

the volume and strength of knowledge, skills, and competencies acquired by students in the classroom [1].

A. Okunev divides the system of effective lessons into the following classes:

1. Lessons that teach you to remember information (learning to keep it in memory).

In math can be used with interactive method of Venn diagram as a feedback in the end or in enter of the class to remember and analyze some significant concepts of the topic.



2. Lessons in finding rational solutions [3].

3. Lesson on checking results based on comparison with given data.

4. Lesson on a single issue (enjoying what they are thinking about, discussing).

It is useful to explain difficult topic like 'Derivative of function with one variable' with a single, but important concept 'function', it can be used in a method of 'A table of concepts' analyze'.

A table of concepts' analyze

Concepts	Analyze
Variable quantity	
...	$y = f(x)$
The method of giving the function	
...	C, π, e
Trigonometric funksion	

5. An independent study lesson that requires a creative approach [4].

6. Independent work lesson on explained information.

7. A lesson to return to the previously studied topic from a different point of view.

8. Laboratory work on geometry.

9. Oral control case lesson.

10. Exam (subject and final) lesson [5,1].

So, the technology based on 'An effective system of lessons' is one of interesting way of teaching in high education system and it can be realized in each discipline, as much as better in exact disciplines like a math. In this way

students can see beauty solutions of math problems and not only solve them, however to improve their creative thinking skills.

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