

PEDAGOGICAL FOUNDATIONS FOR IMPROVING THE CREATIVE TEACHING OF ELEMENTARY CLASS GEOMETRY ELEMENTS

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Annotation:Improving the creative teaching of elements of geometry in the primary class requires not only knowledge and skills from the teacher, but also encourages students to think, imagine and think creatively during the course of the lesson. In this article, we will talk about the pedagogical basis for improving the creative teaching of elements of geometry in the primary class.

Keywords:elementary class, elements of geometry, forms, creative thinking, knowledge, skills, thinking, imagination

Introduction. Geometry and its importance in the elementary class . Geometry is a scientific field that teaches forms, relationships between them, measures and spatial concepts. By teaching geometry in the primary class, students can develop spatial imagination and analytical thinking. The study of the subject of geometry increases not only mathematical knowledge, but also general intellectual abilities. In the process of teaching geometry for elementary students, more visual materials, thoughts, exercises and creative approaches supporting the student's activities are necessary.

Pedagogical foundations of creative teaching of elements of geometry 2.1. Defining the basic principles of student activity The active participation of students in the teaching of elements of geometry is important. The teacher should not only introduce students to ready-made knowledge, but also develop their ability to think independently. For this purpose, various techniques can be applied, for example, methods of "creative work" or "visualizing new forms". 2.2. Use of visual materials and resources Visual materials are of great importance in the teaching of geometry elements. With the help of various shapes, figures, models and layouts, students can visualize geometric concepts in front of their eyes. The construction of 3D forms, interactive exercises using computer programs, provide students with the opportunity to express their creative thoughts. 2.3. Creative exercises and games Creative exercises and games in teaching geometry will increase the interest of students.

For example, interactive games such as "geometric shapes theater", "shape-Finding Game" help students work with shapes and combine them. In this process, students create different shapes and learn about their properties, in particular, about symmetry, angles and measurements. 2.4. Creating a creative atmosphere in the classroom The creative environment in the classroom also plays an important role in the teaching of geometry elements. In order to encourage students to think freely and express their opinions, the teacher must create an atmosphere in the classroom with his open and interesting lessons. The imagination and ideas of students are respected, so that they have the opportunity to develop their own creative approach. 3. Methods for applying a

creative approach 3.1. Visual and practical exercises It is possible to strengthen the educational material by drawing geometric shapes on students, separating them and building them. These practical exercises do not only help students learn mathematical knowledge, but also allow them to learn and analyze the new forms worked by them, the relationships between them. 3.2. Problem tasks It is useful to give students complex tasks, to put in front of them tasks that require creative thinking in order to solve new issues. For example, issues such as " building a shape in two different ways", " find the largest and smallest of the shapes shown " help students develop a creative approach.

Creative teaching of elements of geometry in the elementary class develops not only the mathematical knowledge of students, but also creative thinking, imagination and analytical abilities between them. In the teaching of geometry, it is possible to deepen and expand knowledge by applying advanced pedagogical techniques, activating the activities of students, applying various creative approaches. The effective application of creative approaches, visual aids and modern technologies in improving the pedagogical foundations of teaching geometry will help students to be successful not only in mathematics, but also in life.

Research methodology and analysis results. The pedagogical basis for improving the creative teaching of elements of geometry in the primary class is important in connection with the textbook of the 1st grade, since acquaintance with geometric concepts and forms in the 1st grade creates a solid foundation for the further mathematical education of students. In the process, students not only learn geometric shapes, but also master a creative approach in understanding and expressing the new shapes they create.

1. Elementary stages of teaching geometry elements in a 1st grade textbook In the 1st grade textbook, acquaintance with geometric elements is a very simple, but important stage. The initial classes for students are focused on learning simple and light forms – Square, Square, Triangle, Circle, etc. At this stage, students are given: • A brief understanding of the forms is given, • Their properties (for example, 4 corners in a rectangle and no corners in a circle) are explained, • By drawing and separating shapes, students are given practical exercises. In this case, it is important to take a creative approach, rather than introducing students to theoretical knowledge only by studying forms in a 1st grade textbook. Students need to think creatively and perform various exercises with them when creating forms themselves.

2. Applications of creative teaching methods 2.1. Use of visual aids Visual aids play an important role in explaining forms and their properties in a 1st grade textbook. The teacher has the opportunity to make the lesson more interactive and interesting by drawing shapes, building models or creating shapes using plasticine. Animating forms to students, such as finding forms in different positions through a " game of forms", and creatively citing examples associated with them, helps them further strengthen the teaching material. 2.2. Developing a creative approach through exercises In the 1st grade textbook, exercises are used to develop a creative approach in the process of teaching forms. For example, students can be given exercises such as "create a new shape from a rectangle" or "describe another shape in a circle".

Through these exercises, students use their imagination to engage in various creative works with geometric shapes. 2.3. Interactive lessons and games In the 1st grade textbook, interactive

games and tasks are used to encourage students to think and think creatively when working with geometric shapes. For example, students are given forms and are asked to create a new form from these forms, or have to solve various tasks related to forms. These games and exercises help students to master geometric concepts more deeply. 2.4. Creating a creative atmosphere in the classroom When teaching geometric elements in Grade 1, it is very important to create a creative atmosphere in the classroom. It is necessary to encourage students to actively participate, to express their ideas in the study of forms. With its motivational and interesting approach, the teacher encourages students in the classroom to think and work creatively.

Respecting students' opinions, the forms and concepts they create are supported by the teacher.

3. 1st grade advantages of creative teaching of geometry elements There are several advantages to the creative teaching of geometry elements in Grade 1: * Develop creative thinking: students learn creative thinking when creating shapes and interacting different shapes. • Increasing imagination: by working with geometric shapes, students develop their spatial imagination. * The formation of independent working skills: students learn to think independently when describing and creating forms. • Making the lesson fun: interactive exercises and games increase students' interest in the lesson and encourage them to participate actively.

Conclusion. Improving the creative teaching of elements of geometry in the primary class, harmonizing with the existing pedagogical approaches in the 1st grade textbook, provides students with wide opportunities to master forms and geometric concepts. By engaging students in creative approaches, using Visual Media, performing various creative exercises, it is possible to develop their mathematical imagination and creative abilities. This process forms not only the mathematical knowledge of the students, but also the general thinking and creation skills.

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