**MATHEMATICS IN GAME**

**ABOUT THE PROJECT**

Our project will improve mathematical skills through games, the ability to actively participate in learning in pre-school periods. We enable mathematical activities to recognize and make sense of their environment by reasoning. It will help to solve the problems encountered in daily life. We aim to support his thinking in methods by developing his creative thinking. It will improve research and discovery and lay the foundation for a better understanding and learning of some abstract concepts in mathematics in the future.

It aims to support children's development of positive attitudes towards mathematics in early childhood, and to ensure active child-family-school cooperation during the mathematics studies process, and to effectively acquire basic mathematics skills through various games.

In our project to be carried out in cooperation with school and family; responsibilities of families within the scope of the mathematics project; By preparing a material suitable for the recorded section, they compose it appropriately on the subject and make presentations in class, including a song, an experiment, a game or a story, which is repeated according to their preferences. The evaluation of the teacher from the perspective of the school is to actively use the mathematics workshop on 'Workshop Street' and support the mathematical abilities of the students with materials. Thus, the teacher, family and student are actively involved in our project. Access to our project will be open to everyone and we encourage everyone to take part in our project.

**GOALS OF THE PROJECT**

Color concept (primary colors, secondary colors), shapes, ordering, number concept. (recognition of numbers, numbers before and after, addition, subtraction, comparison, grouping, matching, position in space, measurement, part-whole, time concept (night – day, seasons, time) to make children understand pattern, visual perception, coding, symmetry, graphing, sudoku, algorithm subjects through artistic activities.

Our project aims to internalize mathematics in all areas of life, based on child, school and family cooperation.

Mathematics material prepared together with the family and the child in the form of family participation on the subject will be presented by the child and the family, giving each child the opportunity to apply it. In this way, children's ties with both school and mathematics will be strengthened.

At the same time, the family and the child will ensure that the subject is reinforced with appropriate activities. Thus, mathematics learning experiences will be enriched by utilizing the interdisciplinary approach.

**EXPECTED RESULTS**

**For students:**

Understand the basic concepts of mathematics

In addition to specially prepared materials for mathematics, they can develop mathematical tools with leftover materials and improve their creativity.

They love mathematics and develop the idea that mathematics is fun instead of the perception that it is difficult to do.

It is accepted that doing things right for children brings great happiness. The more challenging the situation, the greater the satisfaction felt upon successful completion. As children challenge themselves and succeed in math, they will increasingly see math as something they enjoy.

There will be visible progress in the cognitive development of our children whose mathematical skills improve. Children who make progress in cognitive development will also develop their ability to understand, learn new things, and problem solve, so there will be meaningful progress in other areas of development.

Mathematics will also improve children's ability to ask intelligent questions, and sometimes meaningful improvements will be seen in their ability to learn on their own by using games and art activities instead of waiting for answers to the questions they ask.

Their interest and desire for mathematics and therefore for science will increase.

**For teachers:**

Teachers will understand that not everyone learns the same way, so they will begin to use different learning approaches and multiple ways of solving problems.

While they include mathematics subjects in their curriculum, they will include more game activities.

It will provide professional development in mathematics teaching methods and techniques.

**For parents:**

Increased awareness and understanding of their child's interests and learning style

They will be more understanding about their children's school experiences.

Increasing participation in their children's education by supporting mathematics learning activities at home

Greater awareness of the importance of mathematics education for their children's development

For school:

Increased student engagement and motivation in learning

Improving academic performance in science and related subjects

Growing reputation as a school that values ​​learning mathematics

Improved family-school relationships thanks to family involvement activities at school

**Working Process**

**DECEMBER**

Teacher meeting webinar

Preparing the project draft for the teachers who will carry out the project

Distribution of Tasks

Poster and Logo Studies and Surveys

Parental Permission Petitions

Parent project presentation

Project Pretest Study

Activity 1: Parents doing math activities with games in classrooms

Activity 2: Children learn a mathematical concept by playing games

**January**

Creating mixed teams

e-Book Studies

3-Activity: Designing toys from waste materials

4- Students will introduce their toys with the leftover materials.

Collaborating

Teacher Evaluation Webinar

**February**

5. Activity:Puzzle game development with Web 2 tool

Project Final test work

Student, parent and teacher evaluation studies

Organizing Project Exhibitions

Quality Label Application

Project Founder : Sevgi ÖZCAN

Project Founder:Daiva TUKIENE

Partners

İlkay ÖNAL

Senem KUKU

Esra KÜÇÜKÇE

Alev KÖKSAL