



Construction of a water dam in a model

5th grade

During the school year 2019-2020, the schools "Themistoklis" participated in the European environmental program GEAR . Within the framework of the above program , the 5th grade of the Primary School undertook to carry out group work on the subject of water. These activities involved discussions, finding information, exchanging views and creating structures aimed at acquainting students with the value of water and hydroelectric energy.

One of the students' group work was to create a model for the depiction of a water dam. Before the construction started , the students together with the responsible teacher took enough time to get acquainted with the work plan they undertook. They talked to each other and learned how dams are created and their role in water collection and energy production. They were also informed about the hydroelectric power stations in Europe in general and in Greece in particular and located them on the map. All of the above information was eventually captured in a presentation and helped students get to know in depth what they were going to do.

Once the above project was completed , the students waited impatiently to start their construction. For the implementation of the model on which you created the dam and used enough plaster gauze . The gauzes were placed one upon another and solidified with a special glue. The shape given to the materials was a hill, which flows through a river .

After the construction dried up, the students of the two departments undertook to proceed with the project, divided into small groups. So they stuck the cardboard they needed to create the walls of the dam and then they started to give color to the construction. Acrylic paints were chosen suitable for covering the gauze and in shades that refer to the natural environment of the dam, ie green and blue. When the paint was dry, it was time to decorate the model. The students chose from the materials given to them what they wanted to place and, thus, finally decorated the model with many different trees and shrubs , which were glued with silicone left and right of the river creating the image of a natural landscape .

The completion of the construction filled the students with pride and satisfaction for the time they had devoted. In fact, they said they were ready to undertake a next work plan, whenever requested.