Visual Mathematics in Practice

Name of the teacher:	Milena Životić
Name and address of the school:	Peta ekonomska škola „Rakovica” Hasanaginice 8, Belgrade
Theme of the lesson:	Polyhedron
Place in curriculum: (type of school, grade)	School of economics, 3rd grade (3 lectures per week)
Age of the students/pupils:	17
Title of the lesson:	Polyhedron (systematization of topic by contstructing Polyhedron using Modular Origami)

Description of the lesson

Time	Exercises, matters, parts of the lesson	Methods and forms of student activities	Developable competencies
5 min 30 min	***Introduction**:* *Short overview of area and volume of Prism and Pyramid.* *Telling the students what is Origami and Modular Origami and how it can be used.* ***The main part**:* *Task:* 1. *According to the scheme using Modular Origami method construct:* ***a)** the cube* ***b)** pyramid.* 2. *What is the total area of the paper that we need if we would like to construct the cube that has volume $27m^3$?* 3. *What is the ratio of the side of the sheet of paper to the length of a side of a cube?*	*Work in groups; individual work*	*Systematization, logical conclusion, creativity, task keeping, flexibility of thinking, planning, looking for connection, whole partial skill perception, attention keeping, communication*

10 min	4. *What is the volume of the pyramid that you constructed?* ***<u>Summary</u>**:* *Discussion with students: analyzing what's done; how did they feel while they were doing it; what they got of this lesson and what kind of expirinece are they going to bring out with them when they walk out of classroom?* ***<u>Inspiration</u>**: Workshop at Family Day and Workshop that was held by Ruth Mateus-Berr (used for summary; applieing the expirience that I've got attending this workshop)*		

Summary

Giveing students the task to do something with their hands make them happy, make them to keep attention and focus to themselfs. They got more motivation for doing math and more selfconfident (by using math knowledge for constructing, even if tsome of them previously didn't have good mark).
Note: after the lesson they called friends from other classes to show them what they did.

Supplements

Used materials:	*There are files in the same folder as this file is kocka.pdf and piramida.pdf (I used Dino Andreazzi and Peter Bundi idea of making a pyramid).*
Photos: