



"Science in our little hands"

Mathematics



 $\ln f_{a,\sigma^2}(\xi_1) = \frac{(\xi_1 - a)}{\sigma^2} f_{a,\sigma^2}(\xi_1)$ (x) $\frac{\partial}{\partial \theta} f(x,\theta) dx = M(T(\xi))$

28th Primary School of Thessaloniki, Greece

Working methods

Reading, observation, trying/experimenting ideas in order to solve problems, personal experience and knowledge, desire to learn more, aspiration to have fun while learning, desire to play

Working Groups:

Pupils of the 28th Primary School of Thessaloniki, First Grade, Fifth Grade, Sixth Grade, A group of pupils form the Special Needs Class

Topics & Themes:

Ideas of pupils based on the taught subjects, questions, interests, themes that provoke pupils to want to work, learn and have fun at the same time! All topics have been adjusted to the age groups each time.

<u>Teachers</u> working with the group of pupils: Bogkia Aggeliki, Georgiadou Ioanna, Kakaroglou Efi, Koutsianou Stergiani



EXERCISE 1	
WHAT ARE WE DOING?	Learning the geometrical shapes
WHAT DO WE NEED?	Workbooks, hard paper, scissors, glue
Pupils of First Grade	Pupils of first grade are working first of all on the school book. They see and learn the shapes' names, color shapes with the same color, draw shapes on a colored, hard paper and then cut them. Finally, pupils make "pictures" using many different shapes



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Worksheet

Write the name of the following shapes in the correct space.



ΣΤΕΡΕΑ – ΣΤΑΥΡΟΛΕΞΟ

2.

4.











EXERCISE 2	
WHAT ARE WE DOING?	Playing with the geometrical shapes
WHAT DO WE NEED?	The pattern of tangram
Pupils of First Grade	Firstly, we cut out the shapes of tangram, from our workbooks. Then we try to make the different pictures using all geometrical shapes. It was not very easy at the beginning, but after exercising, we succeed it!













EXCERCISE 3		
What are we doing?	Learning the names of shapes in English language	
Steps to follow:	Pupils of Sixth Grade learned the names of the basic	
	geometrical shapes. They read the names from the white	
	board and then they filled in the worksheet.	





EXCERCISE 4	
What are we doing?	Learning the names of shapes in German language
Steps to follow:	Pupils of Sixth Grade learned the names of the basic geometrical shapes. They read the names and then they filled in the worksheet. Finally, they folded the paper into small shape-dictionaries.











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EXCERCISE 5	
What are we doing?	Making paintings with shapes
	Sman Artists
Needed equipment	Workbooks, paintings, hard paper,
and materials	color pencils, scissors, glue
Steps to follow:	Pupils of Sixth Grade after viewing paintings of famous
	painters, decided to produce their own "projects". They
	drew shapes on colored hard papers, cut them and then
	created their own ideas into paintings.











EXCERCISE 6	
What are we doing?	Measuring the growth of our plant
Steps to follow:	Do you remember the seeds we planted?
	We wanted to see how many centimeters they gain every
	week.
	We kept a diary for a month. Every week we measured the
	plants, wrote down the new number, and by doing a
	subtraction we found out the growth of each plant.





















EXCERCISE 7		
What are we doing?	Measuring the perimeter of shapes and articles	
Steps to follow:	Firstly, we discussed about what is the perimeter. We found out the 'type' for each shape. Finally, we measured some things in our classroom and wrote down everything	
	on the whiteboard.	



EXCERCISE 8		
What are we doing?	Matching and pairing	
Steps to follow:	What a mess! All these shoes have lost their pair!	
	In a speed game, separated into groups, we try to find the	
	pair of each shoe.	











EXCERCISE 9	
What are we doing?	Working on mathematical issues
	1) Untangling the 'tangles'
Needed equipment	Pupils of First Grade try to untangle some iron shapes
and materials	tangled together! It is hard, but when we did it, we were
	really happy!!!

























EXCERCISE 10	
What are we doing?	Working on mathematical issues
	2) Finding the correct place and moving in squares
Steps to follow:	After reading the instructions, we found the seats in a
	theater, and also, placed certain obstacles in a specific
	square.









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EXCERCISE 11	
What are we doing?	Working on mathematical issues
	3) Follow the numbers to find out the picture
	4) Color the shapes following the numbers (magic picture)
	5) Find your way in the labyrinths!















EXERCISE 12	
WHAT ARE WE DOING?	Chest
	Learning about the game.
WHAT DO WE NEED?	The figures, how they move, rules, what we can and
	can't do, make a chest, play the game, crossword,



EXERCISE 13		
WHAT ARE WE DOING?	Symmetry	
WHAT DO WE NEED?	Cut a half shape with a symmetry line, drawn on a paper folded in half. Make beautiful butterflies	

EXERCISE 13		
WHAT ARE WE DOING?	Tic tac toe	
WHAT DO WE NEED?	The hard place of eggs, plasticin We made fields from the egg nests, 3X3, small balls from plasticin and off we go! The first one who completes a line of three wins.	

EXERCISE 14		
WHAT ARE WE DOING?	Lever tube	
WHAT DO WE NEED?	Communicating vessels Water Level tube filled with water Pencil	
HOW DOES IT WORK	How can we find the straight line in a space and be sure that we are proceeding right, even when opening a tunnel in a mountain? Learn the principal of communicating vesels.	

EXERCISE 15		
WHAT ARE WE DOING?	Robot	
WHAT DO WE NEED?	A small group of pupils in various grades built a robot using various boxes (recycling!) Using: glue, spray paint, fantasy	

