

Additional resources for the teacher

Description of educational activities - implementation of the scenario. If there is equipment in the classroom, the lesson is conducted in the classroom using an interactive whiteboard or video projector, otherwise we are transferred to the school computer lab where the software and the activity sheets required are already installed. The students are divided into groups of 3-6 people and each group has at least one Tablet.

A square and a triangle are presented on the interactive or video projector and based on the pre-existing knowledge, the students are asked to recognize basic characteristics of the above shapes.

Questions:

1. How many sides does the square have?
2. How many sides does the triangle have?
3. Are there many types of triangles?
4. ...

We only keep the triangles in which there are all types of triangles (scalene, isosceles, equilateral, obtuse, acute and orthogonal-right).

After the projection, it would be good to mention in detail the special characteristics of each triangle (equal sides, equal angles... Obtuse and orthogonal triangles can be isosceles and scalene).

The presentation of the triangles by each group is important because they will either consolidate the acquired knowledge or through the recognition of the mistake they will better understand the relationships of the triangles.

The questionnaire will help us to better understand the results of our teaching and if necessary we will repeat it paying more attention to the points where our students have weaknesses.

In a similar way, the same scenario could be used in the lesson types of triangles according to their angles.

Additional activities and Videos in the links:

https://11dim-evosm.thess.sch.gr/html/online/maths_e/triangles6.htm

<https://www.youtube.com/watch?v=vsNdJhxFpLs>

<https://www.youtube.com/watch?v=ltzYignwouE>