

“Art thinking” OPEN LESSON (CATALINA AMENGUAL)

It was done on 10th of May, with students of 4th ESO (16 years) in the mathematics class.

When we entered in the classroom, I just said that we would see a videoclip.

<https://www.youtube.com/watch?v=Q8F538tA-jI>

The first surprise was the title of the song: Thales theorem by Les Luthiers. They were surprised to hear a song that referred to mathematics.

After explaining the theorem, I gave them the lyrics of the printed song. And we saw again the video and we sign together.



Then we went to the yard or garden to do the class. They work in groups of three or four students.



We have been applying the Thales Theorem, which uses the proportionality between the sides of two similar triangles, to calculate different measurements of objects that are in the yard or garden, using as a reference the measure of a right triangle formed by a student and its shadow.

We measured the length of the shadow of a lamppost in the yard, a soccer goal, a tree in the garden, the basketball basket. Thus, in addition to practicing this theorem, we use measurement instruments.

Then the students applied the Thales theorem to calculate the height of the objects whose shadow they had measured.



We analyze the solutions of the different groups and possible errors committed.