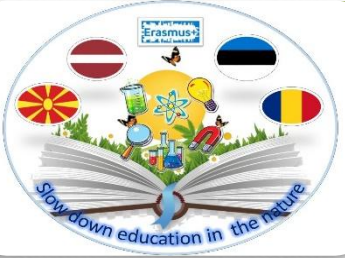


Good practice

Slow down education in the nature

Erasmus+ KA229 project





General information

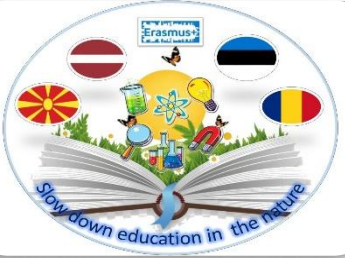
School – Stalgene Secondary School

Country – Latvia

Subject – Math

Topic – Pythagorean theorem

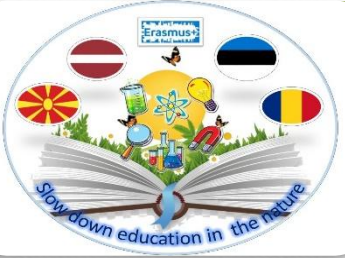
Teacher – Ilze Ērstiķe



Pythagorean theorem

Materials needed – worksheet for notes, tape measure, internet connection

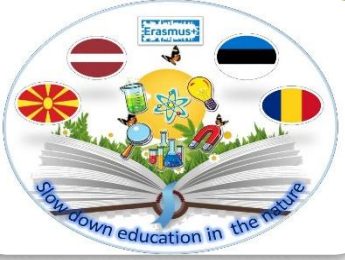
Surrounding – environmental objects in nature in which to see triangles



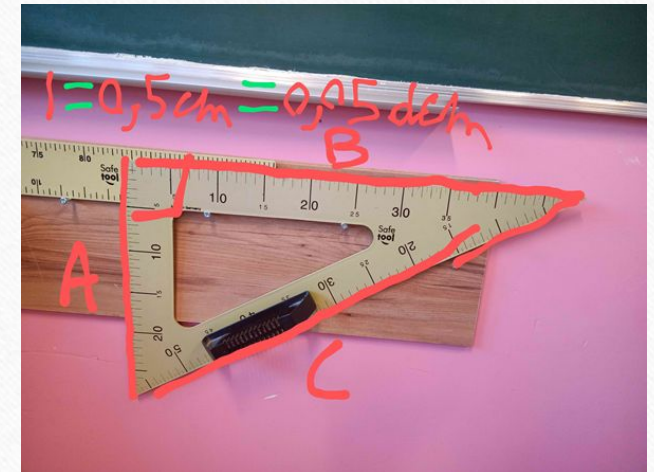
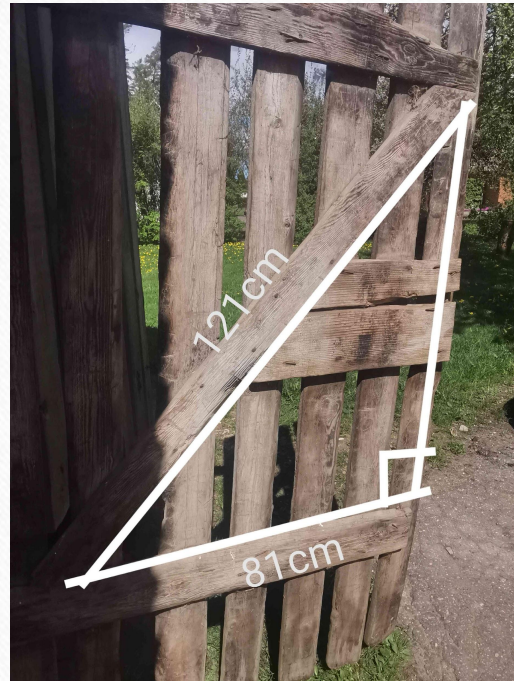
Pythagorean theorem

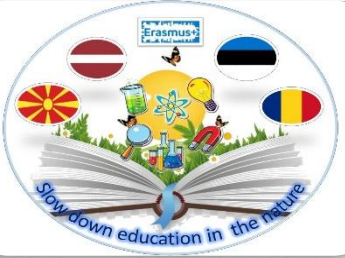
Aims- practically apply the knowledge gained in mathematics lessons about the Pythagorean theorem. To be able to see a triangle in nature. To develop the ability to perform measurements on natural objects.

During the work, the students discovered that in nature, longer distances can be measured using Internet programs - only the relevant measurements were performed and the obtained data were compared.



See the triangles in nature and take the necessary measurements





Notes

15.05.2022

$a^2 + b^2 = c^2$
 $8^2 + 15^2 = 17^2$
 $64 + 225 = 289$
 $289 = 17^2$
 $17 = \sqrt{289} = 17$

Тамара, даде бја ол

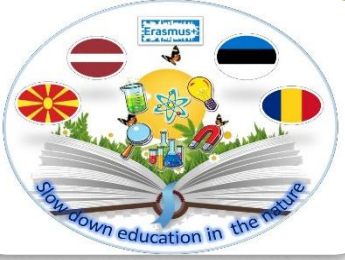
$a^2 + b^2 = c^2$
 $33^2 + 42^2 = c^2$
 $1089 + 1764 = c^2$
 $c = \sqrt{2853} = 53,4$

$x^2 = 144 \text{ : } 2$
 $x^2 = 72$
 $x = \sqrt{72} = 6\sqrt{2} \text{ еднина}$

$a^2 + b^2 = c^2$
 $56^2 + 119^2 = c^2$
 $3136 + 14161 = c^2$
 $c = \sqrt{17297} = 131,57 \text{ m}$

$a^2 + b^2 = c^2$
 $44^2 + 44^2 = c^2$
 $1936 + 1936 = c^2$
 $\sqrt{3872} = 62,22$
 $c^2 = 44 = \sqrt{1936}$

(Универсалија)
 $a^2 + b^2 = c^2$
 $50^2 + 30^2 = 55^2$
 $2500 + 900 = 3400$
 $3400 = 3400$
 Маке таволента Δ



Gallery

Other photos of the activity

