

ICT-based Educational Application for Mathematics - ICTEAM

Comenius Multilateral Project 2013- 2015

a V-a Conferință ICTEAM – Sava, Italy

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În perioada 1 septembrie 2013 – 31 august 2015 s-a desfășurat proiectul multilateral Comenius, „ICT-based Educational Applications for Mathematics” (ICTEAM), cu numărul 13-PM-10-BT-RO, derulat între Inspectoratul Școlar Botoșani / Centrul de Excelență pentru Tinerii Capabili de Performanță Botoșani, instituția coordonatoare a proiectului și partenerii :

- **Silifke Cumhuriyet Ilkokulu, Turkey**
- **Goetheschule Wetzlar, Germany**
- **Основно училище "Любен Каравелов", Burgas, Bulgaria**
- **Osnovna Škola Mikleuš, Croatia**
- **Istituto tecnico industriale-liceo scientifico delle scienze applicate "Oreste del Prete"- Sava (ta)- Italy**
- **Centrul de Excelență a Tinerilor Capabili de Performanță, Botoșani, România**
- **Частна целодневна детска градина "Цветни пещчинки ", Varna, Bulgaria**

Tematica principală a proiectului este utilizarea noilor tehnologii ale informației și comunicării în predarea matematicii.



A cincea întrunire de proiect a avut loc în perioada 23.11.-29.11.2014 la Liceul tehnologic Istituto tecnico industriale-liceo scientifico delle scienze applicate "Oreste del Prete" din Sava (ta), Italy.

Aici au avut loc ateliere de lucru pe tematica dezvoltării paletelor de strategii didactice în vederea creșterii motivației elevilor pentru învățare, au avut loc asistențe la lecțiile desfășurate la clasele de învățământ secundar superior și a avut loc a Va conferință ICTEAM, la care au participat profesorii din echipele de proiect ale celor șapte unități școlare partenere, profesori și elevi din localitatea gazdă, oficialități



locale.

În cadrul celei de aVa Conferințe ICTEAM au fost prezentate următoarele aplicații: Our lessons already in ENVISION (BG), Data analysis (BG), Kheops Pyramid (HR), The trigonometric functions(GE), the theorem of the three perpendiculars (IT), The oscilations(RO), Interactive board lesson (TR)



Math lesson sequences

Частна целодневна детска градина "Цветни
песъчинки ", Varna, BG - BULGARIA

Our lessons already in ENVISION:

<http://www.pesachinki-varna.blogspot.ro/>

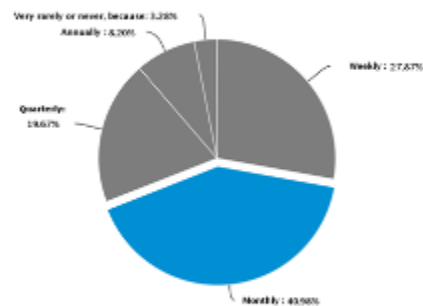


Основно училище "Любен Каравелов", Burgas, Bulgaria

http://new-twinspace.etwinning.net/c/portal/layout?p_l_id=27588386&p_p_id=33&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_pos=2&p_p_col_count=7&_33_struts_action=%2Fblogs%2Fview_entry&_33_redirect=%2Fc%2Fportal%2Flayout%3Fp_l_id%3D27588386&_33_urlTitle=ict-based-math-teaching-in-bulgaria-data-analysis

Bulgaria's analyze

4. HOW OFTEN DO YOU TEACH MATHEMATICS USING ICT-BASED METHODS?



The highest number – 40.98% - of the teachers use ICT-based methods monthly while teaching mathematics. 27.87% - weekly, and 19.67% - quarterly.

3.28% use these methods very rarely or never.

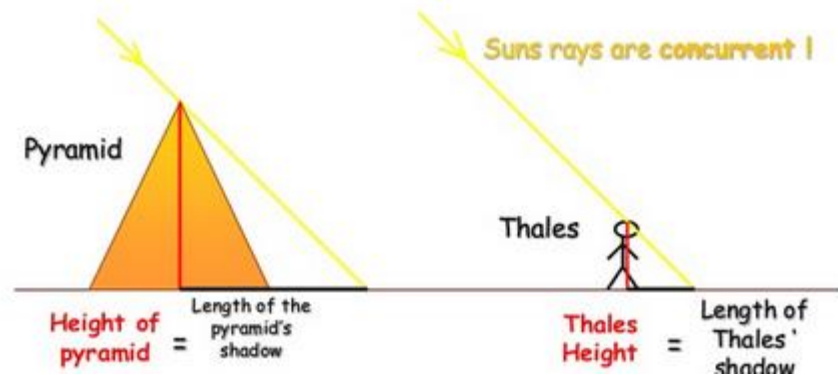


Osnovna Škola Mikleuš, Croatia

Kheops Pyramid

His conclusion:

When the length of his shadow equals his height,
then the length of the pyramid equals the height of the pyramid!



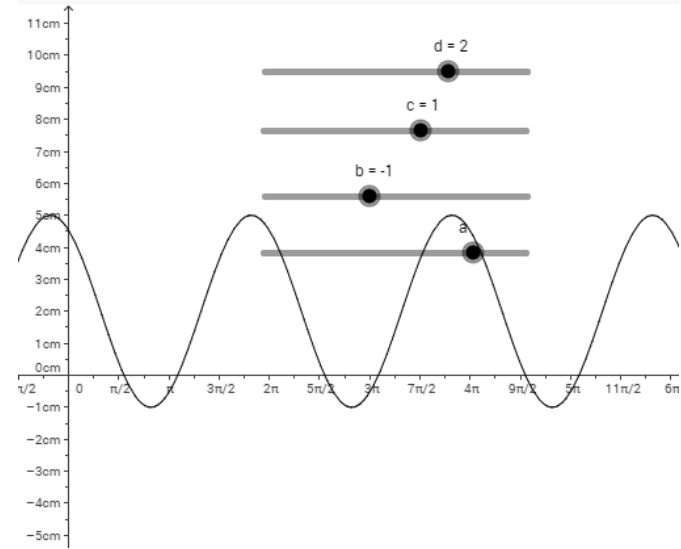
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Lifelong
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Goetheschule Wetzlar, Germany:



Trigonometric funktion with Geogebra :

http://new-twinspace.etwinning.net/c/portal/layout?p_l_id=27588358&p_p_id=33&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_pos=1&p_p_col_count=5&_33_struts_action=%2Fblogs%2Fview_entry&_33_redirect=%2Fc%2Fportal%2Flayout%3Fp_l_id%3D27588358&_33_urlTitle=trigonometric-funktion-with-geogebra

http://de.slideshare.net/Goetheschule/introduction-to-the-trigonometric-functions?ref=http://new-twinspace.etwinning.net/c/portal/layout?p_l_id=27588358

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Possibility to continue this teaching unit (III) Clip slide

Goethe Schule Wetzlar

11



Istituto tecnico industriale-liceo scientifico delle scienze applicate "Oreste del Prete" - Sava (ta)- Italy:



<https://www.youtube.com/watch?v=PfpZemQxs58>

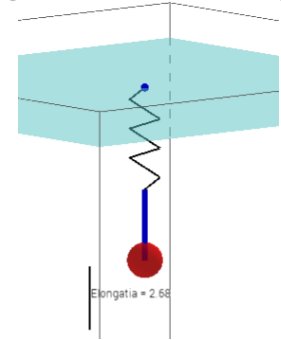
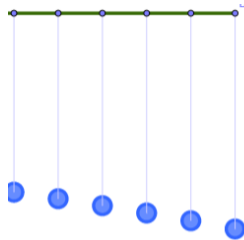


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Applications GeoGebra for mathematics and physics lessons

Mechanical oscillations

<http://tube.geogebra.org/m/1070739>



Harmonic oscillator:

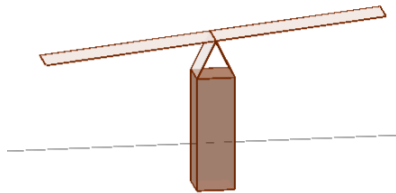
<http://tube.geogebra.org/m/316955>

tutorial1:

<https://www.youtube.com/watch?t=31&v=eAwQDw-VXc>

tutorial2:

<https://www.youtube.com/watch?v=0lbg2VsHgmU>



rocking chair:

<http://tube.geogebra.org/m/316927>

tutorial 1:

<https://www.youtube.com/watch?v=TpqOL8uOegA>

tutorial 2:

<https://www.youtube.com/watch?v=FQJrHVeI9R0>



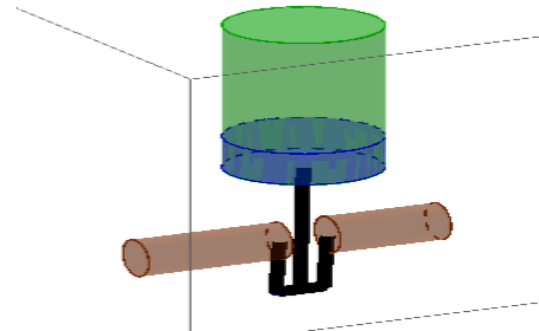
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Applications GeoGebra for mathematics and physics lessons

Mechanical oscillations



Piston: <http://tube.geogebra.org/m/317599>

tutorial1: https://www.youtube.com/watch?v=9t6ljZbyK_E

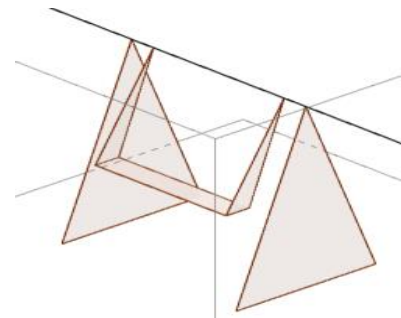
tutorial2: <https://www.youtube.com/watch?t=18&v=7lbsVFqv7Q4>

Gravitational oscillator (Swing)

<http://tube.geogebra.org/m/316967>

tutorial1: <https://www.youtube.com/watch?t=216&v=W9il0uUOZjw>

tutorial2: <https://www.youtube.com/watch?v=7li6Oyw12Ko>



Silifke Cumhuriyet İlkokulu, Silifke/MERSİN, TR - TURKEY

Interactive board lesson:

<https://animoto.com/play/cizEMJuqTxppGErtZhtf6Q>

