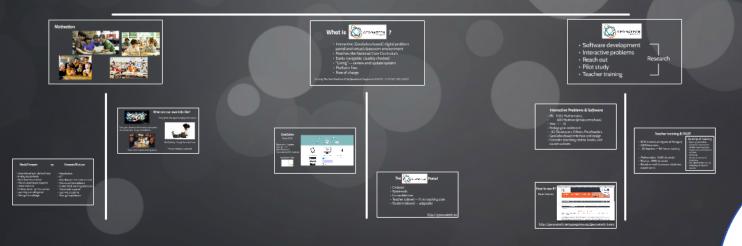
GEOMATECH - Learning is experience



Tamás KOVÁCS (Konkoly)

Márta KIS (BKF)







NATIONAL RESEARCH, DEVELOPMENT AND INNOVATION FUND

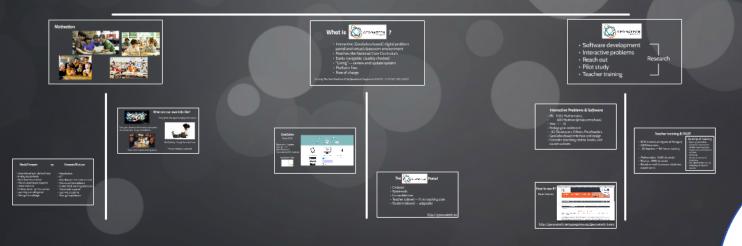


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Motivation













What are our own kids like?

They prefer the rapid changing information

They get a dozen of information and select the unimpotant things immediately.



Team work instead working alone



Multitasking - though for short time

Prompt feedback is desired



Past/Present

VS.

Present/Future

- Understanding in abstract way
- Analog equipments
- Adult teaches children
- Kids are passive participants
- Linear curricula
- Children learn by themselves
- Learning is an obligation
- They get knowledge

- Visualization
- ICT
- Kids discover the environment
- Kids are active explorers
- Customized learning processes
- Team-work support
- Learning is a game
- They get experience



What is



- Interactive [GeoGebra based] digital problem portal and virtual classroom environment
- Matches the National Core Curriculum
- Easily navigable, Quality checked
- "Living" -- review and update system
- Platform free
- Free of charge

Funding: The New Széchenyi Plan Operational Programme TAMOP - 3.1.12-12/1-2013-0001



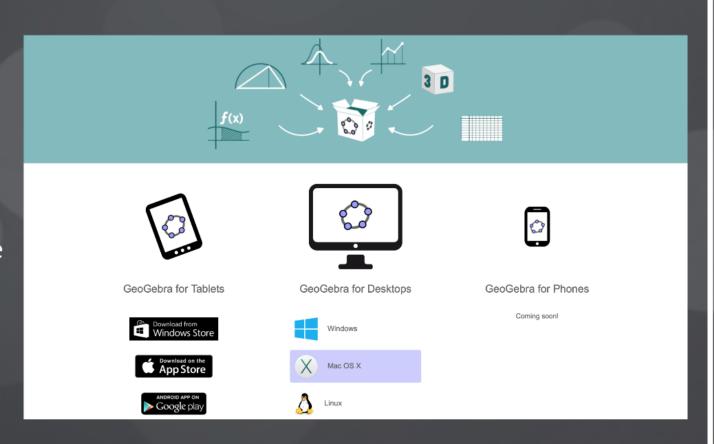
GeoGebra

Since 2001

Geometry + Algebra Age : 6 -- 17+ Social Network Inertnational GG Institiute

GeoGebra Tube







Materials

Downloads

Community

Help



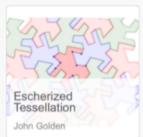
Search our 235808 Free and Interaction

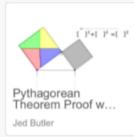


Upload Material

Featured Materials

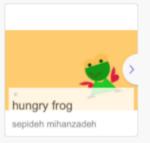












Newest Materials



1.04 Geometry GG

July 28, 2015 - 3:08 AM JacobWebb

m 0 0 0



Single Step Equations

July 28, 2015 - 2:54 AM Matt

m 0 @ 0

m 0 @ 0



July 28, 2015 - 1:23 AM Haley Smart

Popular Worksheets

Tetrahedron and CubeOctahed

February 6, 2013 - 4:02 PM uStas

m 15 © 3



Transformation octahedron i...

February 10, 2013 - 11:00 AM uStas

m 16 🗇 3



Shapes of constant width

January 17, 2012 - 9:19 PM Michael Borcherds

rå 6 ⊚ 1

Popular Tags



Material Types

Worksheets GeoGebraBooks Tools Links

Spreadsheet data files





- Ordered
- Systematic
- Immediate use
- Teacher tailored -- fit to teaching style
- Student tailored -- adaptable

http://geomatech.hu





- Software development
- Interactive problems
- Reach out
- Pilot study
- Teacher training

Research



Interactive Problems & Software

- IPs: 1200 Mathematics
- 600 Science (physics emphasis)
- Year : 1 -- 12
- Pedagogical assistance
- ~30 Developers, Editors, Proofreaders
- GeoGebra based interface and design
- Complex searching criteria, books, and course outlines



Teacher training & PILOT

- 800 schools all regions of Hungary
- 2400 teachers
- ~50 trainers -- 90-hours training
- Mathematics: 1600 students
- Physics: 800 students
- Based on real classroom situations, experiments

Outline of training

- Basics of GeoGebra
- Using GG in classroom
- Modern learning styles
- Experiments, simulations with GG
- WEB 2.0
- Electric devices and GeoGebra
- The GEOMATECH Portal
- Preparing for teachercourses



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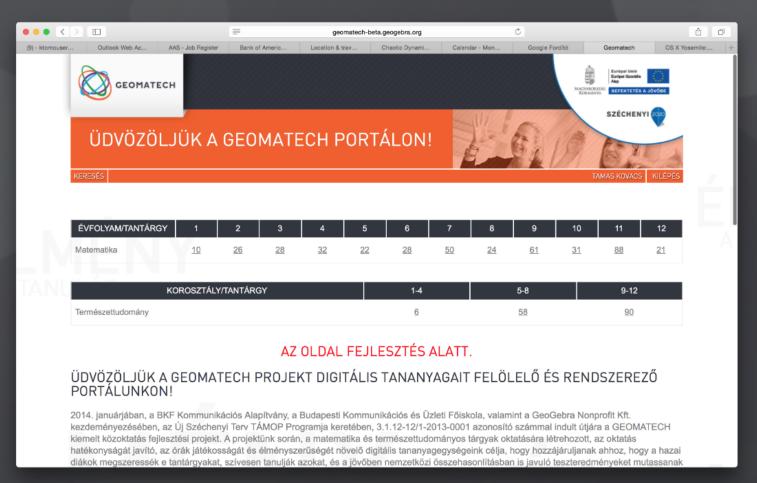


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How to use it?

Basic features



http://geomatech-beta.geogebra.org/geomatech/index

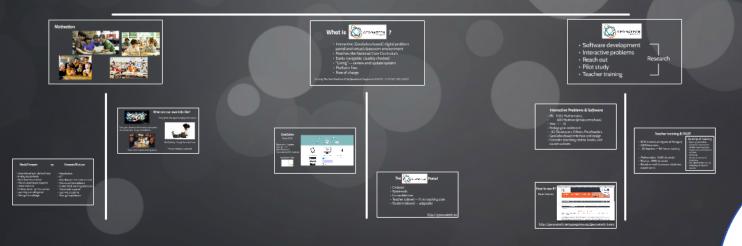


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