<table>
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Agenda

- Project presentation
- The pedagogical framework of School Lab based on the
  - Active and collaborative Learning
  - Educational value of creating videos by students
- Statistics and Results from the research based on students and teachers’ views from their participation.
Welcome to

The School Lab aims to provide educational resources and tools to enhance learning and creativity. You can explore various topics, participate in activities, and share your ideas. You will learn and interact with others, creating your own videos and projects.
School Lab aims to supporting students to:

- Develop a critical and thought-provoking mindset through innovative and creative activities
- Gain self-confidence
- Enhance skills to present their ideas to a wide audience
- Value upcoming scientists as role models
- Better understand the exciting challenges faced by scientists and researchers
Collaborative Learning

- Rich interactions, Conflicts, Exchange of ideas and negotiation
- Interest and encouragement one another
- Respecting and highlighting the individual members' abilities and contributions
- Promoting higher achievement and greater productivity
- More caring, supportive, and committed relationships
- Greater psychological health, social competence, and self-esteem.
What is the educational value when pupils create their own videos?

- Inspire and Motivate
- Contribute in attracting their interest,
- Cultivate digital and collaborative skills

- Using video, pupils can explain difficult situations that are hard to be explained orally or by written text.
- Increasing the level of pupil’s participation, the quality of learning increases too.

*Media & Learning, Flemish Ministry of Education, Brussels 2013*
A STEM Video competition for pupils from Fifth Grade up to Junior High

Science (Physics, Chemistry, Geology, Biology)
Technology, Engineering, and Mathematics

devoted to EARTH! (2013)
Subject matters

- the history of our planet,
- human and the environment,
- minerals are everywhere,
- technology in the past, present, and the future.
Participating in the competition

- creating a group of 2-4 members with their classmates
- coming up with a smart and fun name for their group
- picking a scientific subject that they think attractive
- researching about it, and
- finding an interesting, innovative and comprehensive way to present it on a short video.

*Media & Learning, Flemish Ministry of Education, Brussels 2013*
How do school communities participate?

What materials is contemporary technology using?

What’s common among a light bulb, a cell phone, and a tooth paste?

How do humans affect the environment?

How was Earth created?
Pick theorems, natural phenomena or concepts around our planet’s history, human and the environment, minerals, and technology

Simulate situations

Execute experiments

Represent laws in Physics

Compose, sing and dance their rap songs

Present Short Plays
Mentors
Guiding and supporting

Media & Learning, Flemish Ministry of Education, Brussels 2013
7,210 visits/month

513,589 hits/month

763,918 hits in May

(Κάντε κλικ πάνω στη μικρογραφία για να παρακολουθήσετε το βίντεο)

Οι διακρίσεις που δόθηκαν είναι οι εξής:

1η θέση: Κ.Α.Υ.Α. - 1ο Γυμνάσιο Παναράματος Θεσσαλονίκης

2η θέση: Τα 4 Μαθητώνα - Εκπαιδευτήριο ΠΕΡΓΙΟΥ ΣΩΗ

3η θέση: Σ.Δ.Κ. Μελέτη στο μυθίστορημα - Βο Δημοτικό Σχολείο Αμπελοκήτων Θεσσαλονίκης

Οι υπόλοιπες ομάδες που συμπλήρωσαν τη δεκάδα είναι (με τυχαία σειρά):

Earth Shake - Μουσικό Σχολείο Σάνθης
A.G.A.I. - Σύγχρονη Παιδεία
ITV-Lab - 1ο Δημοτικό Σχολείο Σπάταν
Geniuses - 1ο Γυμνάσιο Παύκων Θεσσαλονίκης
Δύο Τουκάνο - 2ο Δημοτικό Σχολείο Ζωγράφου
Η περί βαρία (ανασάνα) - Εκπαιδευτική Αναγέννηση
Οι Άγγελοι του Μπάμπα - 2ο Γυμνάσιο Πειραιά
Participation of Schools 2011-12, 2012-13

![Graph showing participation of schools, classrooms, students, and educators in 2011-12 and 2012-13]
Average visits per month, 2011-12, 2012-13
Evaluation

Quantitative research in 100 pupils και 25 teachers

- Attitudes towards scientific topics
- Basic characteristics of the project
- Collaborating with mentors
- Media and resources of the project
Strengths

- working in groups
- The platform was simple, friendly and attractive
- Active participation of school communities
- Supporting
  - creativity
  - groups by mentors
- Speaking in the platform was familiar despite the difficult definitions and laws of STEM
In conclusion

Engaging students in authentic meaningful activities enhance their active participation and enables deeper comprehension and retention of knowledge (Unesco, 2002).

It is the first project in Greek education which uses mentoring practice.

Using video to support STEM teaching & learning practices brings students closer to scientific research methods in a most attractive way.

The project brought innovations in educational practices making students approach STEM topics in an alternative way focusing effectively on UGV.

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Εάν είσαι μαθητής από Ε΄ Δημοτικού έως και Γ΄ Γυμνασίου, πάρε μέρος στον επιστημονικό διαγωνισμό

Γίνε ένας επιστήμονας της Γης!

Πάρε μέρος κι εσύ! Πληροφορίες στην ιστοσελίδα του διαγωνισμού: www.school-lab.org

και κέρδισε!!!

Διάρκεια του διαγωνισμού: Μάρτιος – Απρίλιος 2013

Φτιάξτε μια ομάδα και δημιουργήστε το δικό σας βίντεο για τον πλανήτη, το περιβάλλον, τα ορυκτά και την τεχνολογία!
Thank you! @sofipapadi