How much does an -School bag in Slovenia weigh?

Tartu, November 4th 2014
PRESENTATION

of
THE NATIONAL INSTITUTE OF EDUCATION
from
SLOVENIA

THROUGH THE EYES OF THE EMPLOYEES

Tartu, November 4 - 6 2014
The Republic of Slovenija

Area: 20,273 km²
Population: approx. 2 mio
Capital: Ljubljana

Kindergartens: 336
Primary Schools: 454
Secondary Schools: 162
Music Schools: 58
Student Dormitories: 37

The National Institute of Education

I FEEL SLOVENIA
Total employees in 9 Regional Offices and including the Head Office: 198 (+26 ESF)

Pedagogical consultants: 75%

Support staff: 25%

Employees with post graduate diplomas: <33%
OUR ACTIVITIES

- Study-Groups
- Conceptual-Solutions
- Branched-Out-Networks
- Consulting
- Monitor
- Evaluate
- Educational-Programs
- Plan
- Mentor-Networks
- Connect
- Regular-Training
- Publishing
- Decision-Making
- Conferences
- Research
- Development
- Implement
- Implement-Projects
- Recognized
INTERNATIONAL CO-OPERATION
- schoolbag in Slovenia
E-School bag

Project is based on three main pillars of 21st c. school:

• Creating e-learning environment
• Development of e-contents
• Training of ‘e-competent’ teacher
Purpose of the project

Setting up the appropriate infrastructure for developing and implementing modern e-services and e-content in the Slovene language.

Development of e-textbooks for social sciences

Development of platform for accessing e-content:
- Editor
- Administrative portal
- EduStore
- Clients for Win/Mac
E-textbooks

- Classic textbook + workbook + interactive elements
- In line with all goals of curriculum
- All operating systems (iOS, Android, Windows),
- Tablet, PC, mobile phone
- On-line and off-line
d-textbooks
digitalized textbooks

r-textbooks
rich

i-textbooks
interactive textbooks
DEFINICIJA KVADRATNE FUNKCIJE

Oglej si film in ugotovi, kaj ima skupnega s slikami pod njim.

PONOVITEV

Krivulje na različne načine postavimo v koordinatni sistem. Pri kateri postavitvi krivulja predstavlja graf funkcije? Utemelji svojo izbire.

Premisliti, kakšno enačbo ima krivulja na spodnji sliki, ki sovpada s trgom žoge iz uvodnega filma? Enačbo krivulje poznamo iz poglavja o potencičnih funkcijah. Oglej si podatke na sliki in zapiši enačbo.

\[
\begin{align*}
A &= (0, 0) \\
B &= (-0.5, -0.25) \\
C &= (0.5, -0.25) \\
D &= (1, -1) \\
E &= (-1, -1)
\end{align*}
\]

Development of e-textbook
E-textbook

- Structured to selected themes
- Presented by table of contents
- Encourages active and independent learning
Copyright and e-textbooks

• E-textbooks published under CC license BY-NC-SA

• Allows users to remix, tweak, and build upon work non-commercially, as long as they credit author and license their new creations under the identical terms.
Pilot project
Use and testing
e-content and e-services in teaching and learning
E-Competent Teacher, School Principal, IT Expert

1. Knowledge and awareness of ICT tools, critical use
2. Communication and online collaboration
3. Search, select, process, evaluate data, information and concepts
4. Safe use of the web; ethical and legal use of information
5. Design, produce, publish and adapt materials
6. Plan, perform, evaluate learning and teaching by using ICT

Key competencies

BULLETIN: The way towards e-competency
March 2012

http://url.sio.si/enG
E-competent school

Zavod Republike Slovenije za šolstvo
Website for e-textbooks: http://eucbeniki.sio.si/test/iucbeniki/
Apps for e-textbooks

14-years-old “tablet” student
NALOGE

1. Dopolni manjkajoče izraze.
   Likovno področje, ki se izraža z maso in volumnom, je _________________.
   Ustvarjalec se imenuje _________________. V svojih kipih izraža svoje ideje, misli, doživetja in prepričanja. Ko oblikuje kip, razmišlja o obliki, stojnosti - _________________. Kipa, o njegovi površini, materialu in barvi, o celostni postavitvi - _________________. In o postopkih oblikovanja.

2. Kaj povzroča težave kiparju na sliki. Izvedel boš, če boš premetal spodnje črke.
   P M J I C A Z K O O I

Preveri  Namig  Potiši
Promocijski posnetki sodelujočih šol

ŠČ NOVO MESTO
Pogojno, kako poteka vključevanje tablic v učni proces in kakšna so različna mnenja o graditvah? Graditve omogočajo večja motivacijo za učenje, razvijajo in individualni pristop.

ŠČ NOVAGORICA
So uporabniki (djaki in učitelji) z uporabo tablic zadovoljni? Je pokaz bolj zanimiv in bolj pester? Dvanajstih poročal se kaže v različni uporabi tehnologije (tablic) - npr. za ogled animacij in pregled teh aktivnosti delo z vsebinami (v učbeniku), delo v e-učbeniku, delo z različnimi orodji (npr. Kliker), snemanje fizičnih in kemskih poskusov ...

Cas, v katerem je tažje pisati kot brati
Evaluation

- which applications are the most effective and appropriate in different subjects for achieving learning goals,

- how teachers developed 21st century skills and which they developed,

- how successfully they managed to plan their lesson, focusing on critical and appropriate use of digital tools or ICT in general.

Questionnaires for teachers, students and parents

Class observation
92% of the evaluators estimated that individualisation or differentiation of instruction does take place with the support of information technology (IT), and about 77% believe that this is happening entirely with the support of IT.

About 80% of the evaluators also believe that students are using e-textbook and e-materials for the consolidation of knowledge all the time and the teacher prepares students to work independently and learning with e-textbooks and e-materials.
1101 questionnaires for students show that more than half of them prefer to use e-student books in classes, and that they prefer to solve tasks in the e-student books. Slightly less than half indicate that they prefer to read from the e-student books and learn new content. About a third of the students stated that they prefer to do their homework in the e-student book and it is easier to acquire new knowledge in classes with the help of e-student books.
The analysis of the 94 questionnaires for teachers, in which they were asked to compare their teaching practice with e-student books as opposed to classic ones, shows that 60% of teachers claim that their students are much more motivated and engaged for school work, two thirds believe that students look for information on the web much more and they use materials in virtual classroom, which doesn't happen if they use classic student books. More than 80% use various teaching strategies and approaches when using e-student books and more than half of them see more opportunities for assessment and individualisation in classes.
Results

The analysis of **302 questionnaires for parents** shows that the **third of them believe** their children are more independent learners at home and motivated for school work when using e-student books. They also stated that they acquired a lot of ICT competencies.

**Around 40 % notice** that children are autonomous with their homework and the **third believes** that they are more motivated for school work and know more.
Conclusion
Thank you for your attention
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