Impact of Mobile Technology on Students’ Learning: The Teachers’ Perspective

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Mobile Learning and Education

Case Study
General information

- Survey sent to 42 schools all over Spain
- Projects 2012/13
- Sent to teachers directly involved in the ML Project
- 158 answers collected (from 38 schools, 2500–3000 students)
Age

- Less than 25
- Between 26-35
- Between 36-45
- Between 46-55
- More than 56

Gender

- Male
- Female
Teachers’ Academic Degree

- Technical
- Graduate
- PhD
What is the academic level in which you teach?

- Pre-School
- Primary
- Secondary
- High School
- Vocational Studies
Years of experience in education

- Less than five
- Between 6-15
- Between 16-24
- More than 25
Past year formal training received in the use of mobile technologies in the classroom

- YES: 100%
- NO: 0%
Formal training influence on the learning process of the students

- Very Little
- Little
- Average
- Much
- Very Much
Models of use of mobile technologies in the classroom

- **Model (a)**: 1x1
- **Model (b)**: 1x1
- **Mobile Trolley**
- **iPad in the Classroom**
- **Only teacher has iPad**
Uses of mobile devices for different purposes

- Communication: families...
- Productivity, teacher's support
- Educational Use
- Management
Students’ motivation.
Level of influence of mobile technologies

- Stimulates personal interest for homework (inspires the students curiosity, it betters the attention span regarding the subject matter).
- It favors the student's self-esteem level during homework time.
- Enables the student to discover the value of homework (the meaning of learning, acknowledging the significance of learning.)
- Inspires action (interactivity of the user, the device and it's learning content)
Social Abilities
Level of influence of mobile technologies

- The cooperation and the collaborative work in daily homework.
- The interpersonal communication and usage of empathy with others. (i.e. group work)
- The ability to distinguish and solve conflicts.
- The assumption of responsibility and the development of ethical compromise.
## Cognitive Abilities

Level of influence of mobile technologies

<table>
<thead>
<tr>
<th>Ability</th>
<th>Influence Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquisition of information as it relates to different subjects.</td>
<td>3.0</td>
</tr>
<tr>
<td>Analysis and synthesis of information.</td>
<td>3.0</td>
</tr>
<tr>
<td>Evaluation and administration of information obtained from different sources.</td>
<td>3.0</td>
</tr>
<tr>
<td>Problem Solving and decision making.</td>
<td>2.5</td>
</tr>
<tr>
<td>Development and creation of new ideas and content.</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Relevance of Mobile Technologies to improve the learning process in the classroom according to teachers’ perceptions

Summing Up:
**THE IMPORTANCE OF TECHNOLOGY IN EDUCATION**

**5 BENEFITS OF TECH IN ED**

1. **FUTURE ORIENTED**
   - Technology in the field of education can be a powerful tool.
   - The future is all about technology and multi-screening. Education can't lag behind.

2. **LEARNING BECOMES INTERESTING**
   - It engages and challenges students with brand new and interactive methods.

3. **IMPROVES SKILLS**
   - Digital learning, collaboration, communication, building teams, mobile learning, problem solving, social presentations.

4. **INCREASES COLLABORATION**
   - Students can work and collaborate with people in other locations. Distance learners can join online communities.

5. **REDUCES WEIGHT**
   - Instead of carrying lots of books, students just carry a laptop, a tablet, or a mouse which contain all their books and projects.

**THE FUTURE IS TECH, GET READY!**

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**TEACHERS EMBRACE DIGITAL RESOURCES TO PROPEL LEARNING**

- **74% of Teachers Say**
  - "Educational Technology is a Student-Motivator"

- **Benefits of Educational Technology**
  - 74% Reinforce and expand content
  - 74% Motivate students to learn
  - 73% Respond to a variety of learning
  - 69% "Do much more than ever before" for my students
  - 65% Demonstrate something I can't show in any other way

- **More than two-thirds of teachers want more classroom technology**
  - And up to 75% of teachers in low-income schools

- **Most Commonly Used Tech Resources**
  - 48% Online lesson plans
  - 45% Web-based interactive games and activities
  - 44% Websites to deliver class information
  - 43% Online video, images, and articles

- **Most beneficial uses of tablets and e-readers for teaching**
  - 71% Educational applications
  - 64% Educational websites
  - 60% Educational e-books/textbooks

- **Available Technologies in the Classroom**
  - 90% Personal computer or PC
  - 59% Interactive Whiteboards
  - 36% Handhelds (including cell phones, smart phones)
  - 35% Tablets/electronic readers

- **More than one-third of teachers said they use a tablet or e-reader in their classroom, up from 20% a year ago.**

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*Study Methodology*

The survey, sponsored by PBS and conducted between January 20 and February 20, 2013, included 500 teachers and had a margin of error of +/- 4.9% at a 95% confidence level.

*PBS LearningMedia*

pbslearningmedia.org
iPads in the Classroom
Changing the face of Education

Since their release in April of 2010, Apple’s iPads have taken the US by storm. iPads have swept through almost every industry, especially education. Apple is pushing for iPad use in education, and several schools across the US have taken up the charge. The proliferation of iPads in the classroom will only keep accelerating.

43% OF TEACHERS ALLOW STUDENTS TO USE TABLETS SUCH AS iPADS IN CLASS

8 OUT OF 10 TEACHERS SAY THEIR STUDENTS WANT TABLETS LIKE iPADS IN CLASS

OVER 2,300 SCHOOL DISTRICTS ARE USING iPADS IN THE CLASSROOM

8 MILLION iPADS HAVE BEEN SOLD DIRECT TO EDUCATIONAL INSTITUTIONS WORLDWIDE

OVER 2,400 HIGHER ED AND K-12 SCHOOLS OFFER OVER 2,500 PUBLIC COURSES ON ITUNES U

OF ALL WEB TRAFFIC GENERATED BY TABLET DEVICES IS FROM AN iPad

OF STUDENTS BELIEVE THAT TABLETS CAN HELP THEM TO STUDY MORE EFFICIENTLY

APPLE SAYS IT’S SOLD TWICE AS MANY iPADS AS MACS TO ITS EDUCATION CUSTOMERS

“THE BIG 3” PUBLISHERS, WHICH TOGETHER PROVIDE 90% OF TEXTBOOKS AVAILABLE TO SCHOOLS, ARE ALL PARTNERING WITH APPLE TO SELL DIGITAL VERSIONS

71% of teachers say apps are beneficial for teaching

64% use tablets for educational websites

60% are into educational e-books/textbooks.
Wireless Technology in the Classroom

Do we Really Need it?

3 Out of 4 Teachers Say...
Teachers and Students agree... on what wireless technology they want most... apps are beneficial for teaching

86% of students say tablets help them study more efficiently

What do the Teachers think?

43% of teachers use tablets in the classroom
73% say they or their students use smartphones to complete assignments
81% think tablets enrich learning
45% report using e-readers in the classroom

37% of teachers say they plan to transition to only digital textbooks within the next 1 to 5 years.

What the Students are saying

1 in 2 students want more digital content in lessons
2/3 of students would like to use their own mobile device to enhance learning
3 Out of 4 students... prefer tablets over textbooks
47% of students want more tablet usage in lessons

Sources: PBS Learning Media, ECTR 2012, CUNY Graduate Initiative, NDesign 2012, The Pew Research Center’s Internet & American Life Project, OxfordUniversity.com, Pearson Education Tablet Survey, Samsung, Scholastic.com
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Thank you!

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