



Digital Content Trends:

Are we on the same page with today's "Free Agent Learners?"

Speak Up 2009 National Findings

Julie Evans Project Tomorrow jevans@tomorrow.org

Today's Discussion: The Big Questions



- What are the expectations of today's K-12 students for the use of e-textbooks and digitally-rich content and resources within education?
- How does this student vision compare with the educators' realities? What about the parents' perspective?
- What challenges or obstacles do educators face in implementing these resources? What are the benefits?
- What does this mean for the NSDL community?

Today's Agenda:



- > What is Speak Up?
- Selected Data Findings
- Meet the "Free Agent Learner"
- Conversation Time

Speak Up Research Project: Views of Students, Teachers, Parents, Administrators & Pre-Service Teachers

Speak Up National Research Project

Annual national research project

- Online surveys + focus groups
- Open for all K-12 schools and schools of education
- Institutions receive free report with their own data

► Collect ideas ↔ Stimulate conversations

- K-12 Students, Teachers, Parents, Administrators
- Pre-Service Teachers in Schools of Education

Inform policies & programs

- Analysis and reporting of findings and trends
- Consulting services to help transform teaching and learning



Speak Up National Research Project



Empowering authentic voices – since 2003:

- 1.6 million K-12 students
- 142,000 teachers
- 82,000 parents
- 10,500 school leaders
- 1,900 pre-service teachers
- 23,000 K-12 schools from all 50 states, DC, American military base schools, Canada, Mexico, Australia, int'l schools . . .
- 71 schools of education

I.85 million respondents



Speak Up is facilitated annually by Project Tomorrow (formerly known as NetDay)

Project Tomorrow (www.tomorrow.org) is the leading education nonprofit organization dedicated to the empowerment of student voices in education.

Speak Up 2009 survey question themes

- Learning & Teaching with Technology
- 21st Century Skills: Digital Citizenship
- Science and Math Instruction
- Career Interests in STEM and Teaching
- Professional Development / Teacher Preparation
- Internet Safety
- Administrators' Challenges
- Emerging Technologies in the Classroom
 - Mobile Devices, Online Learning, Digital Content
 - Educational Games, Web 2.0 tools and applications
- Designing the 21st Century School



Participate in Speak Up 2010!

Online surveys available for:

K-12 students Parents (in Spanish too!) Teachers & Administrators Pre-service teachers Librarians & Technology Coordinators

Surveys open for input: Oct 18 – Dec 17

No fee to participate. No limit on the # of surveys submitted. 100% confidential.

Free online report for all Speak Up participating districts w/ your local data: Feb 2011

Release of National Speak Up Findings in Congressional Briefings: Spring 2011



Voices of Education Stakeholders - Speak Up 2009



Activities, Attitudes & Aspirations Disconnects & Differences Trends & Leverage Points

Today's Focus: E-Textbooks & Digital Content

National Speak Up 2009 Participation: 370,565

✓ K-12 Students 299,677 38,642 ✓ Teachers Parents (in English & Spanish) 26,312 School/District Administrators 3,947 5,757 / 1,215 Schools / Districts ✓ Pre-Service Teachers 1,987 71

Speak UP

Schools of Education

Participating States = all 50 states Top 12 (# of participants): TX, AZ, AL, CA, FL, MD, PA, NC, AR, MO, NY, IL



About our K-12 Schools:

□97% public, 3% private

□ 38% urban, 31% suburban, 32% rural

□ 54% Title 1 eligible – indicating community poverty

□ 42% majority-minority student population

About our Schools of Education/Aspiring Teachers

□ 89% four year public institutions

□ 2/3 undergraduates; 1/3 graduate students



Release of two national reports March 16 and May 5, 2010



Creating Our Future:

Students Speak Up about their Vision for 21st Century Learning

Speak Up 2009 National Findings: K-12 Students & Parents Unleashing the Future:

Educators Speak Up about the Use of Emerging Technologies for Learning

Speak Up 2009 National Findings: Teachers, Aspiring Teachers & Administrators

Both are available at www.tomorrow.org

Key Findings: Speak Up 2003 – 2010



- Students function as a "Digital Advance Team"
- Students regularly adopt and adapt emerging technologies for learning
- Students' frustrations with the unsophisticated use of technologies within education
- Lack of relevancy in education exacerbated
- Persistent digital disconnect between students and adults



What can the Speak Up findings tell us about the future of learning?

What can the Speak Up data tell us about the future of learning?



Increasingly, K-I2 students' aspirations around the use of emerging technologies within education is a reflection of their desired vision for learning in general.



Result:

A new uniquely "student vision" for leveraging emerging technologies to drive achievement and educational productivity



Three Essential Elements in the Student Vision

Social-based learning
Un-tethered learning

Digitally-rich learning



Three Essential Elements

Social-based learning



Students want to leverage emerging communications and collaboration tools to create personal networks of experts



Three Essential Elements

Un-tethered learning



Students envision technology-enabled

learning that transcends classroom walls



Three Essential Elements

Digitally-rich learning



Students see the use of relevancy-based digital tools, content and resources as key to education productivity



Three Essential Elements

Digitally-rich learning

Online textbooks

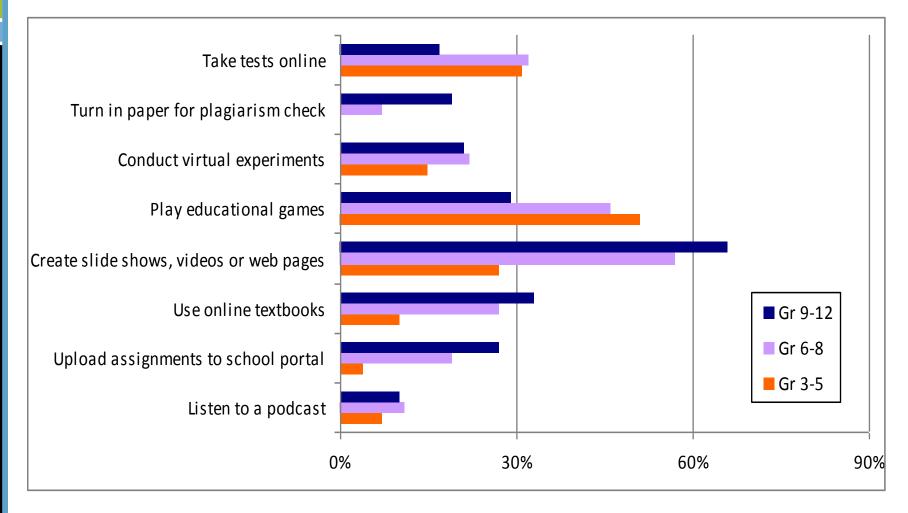
Games

Simulations and animations

Creating using digital media

How K-12 students are currently using digital resources for schoolwork







What if

We asked students (and parents) to design the ultimate digital or e-textbook?

What features and functionality would they desire?

K-12 students' desires for the features and functionality of digital textbooks

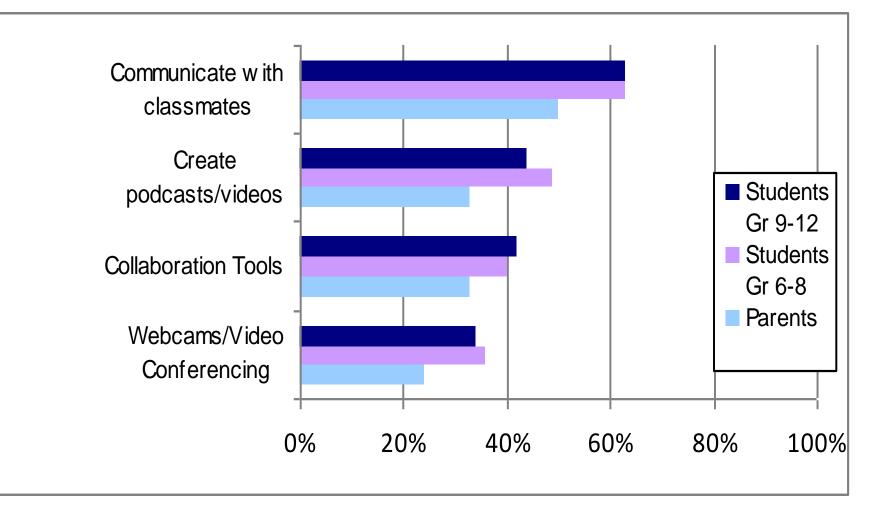


Three themes emerge from the data:

Students want interactivity and relevancy
 They want tools to facilitate collaboration
 They want ways to personalize learning

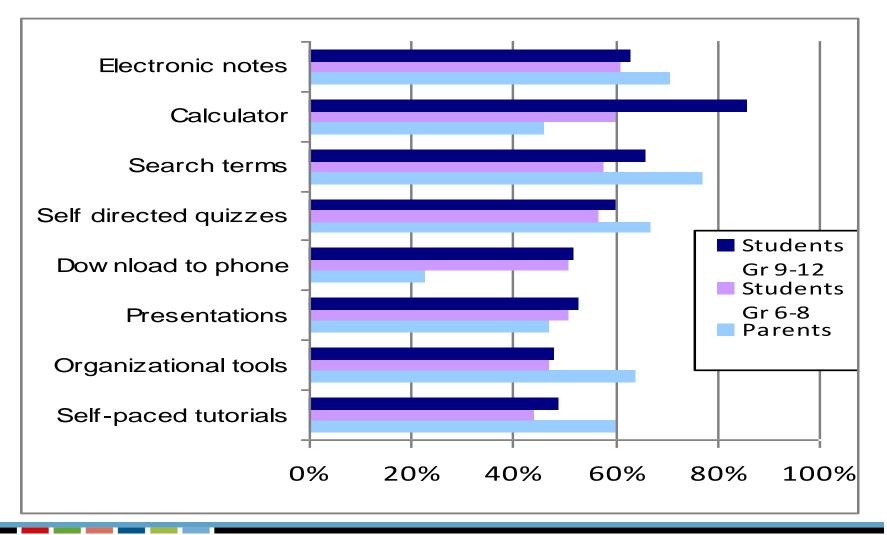
K-12 students want their digital textbooks to facilitate collaboration





Students want to use their digital textbooks to personalize learning

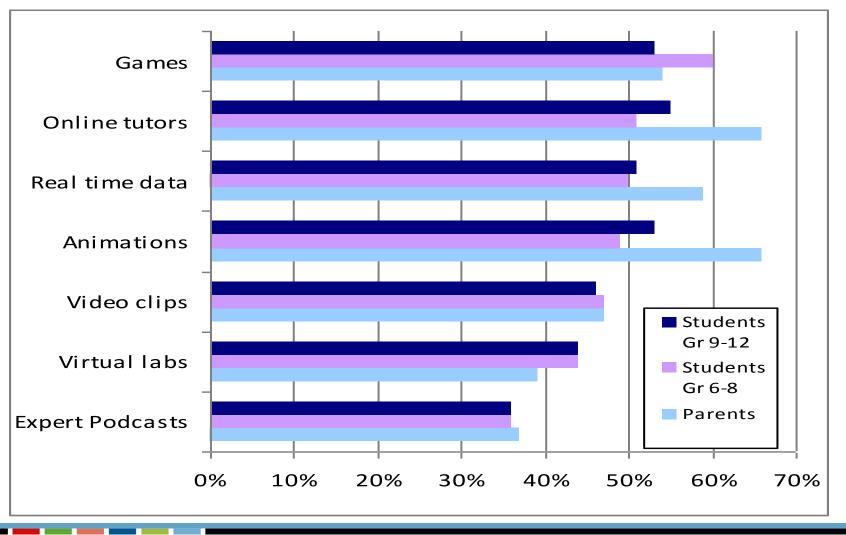




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K-12 students want their digital textbooks to be interactive and relevant





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Why do parents think the use of educational games can drive achievement?	Speak UP
Appeals to different learning styles	76%
Increases student motivation and engagement	76%
Helps students develop problem solving skills	57%
Provides environment to visualize difficult concepts	56%
Develops creativity	53%
Students get immediate feedback	52%
Experience through trial and error is good	50%

Unleashing the Future: Educators "Speak Up" about the Use of Emerging Technologies for Learning



What is the value proposition for technology in education?

Audience response



Who do you think is most "bullish" on the importance of effective use of technology for student success? (Besides students!)

Audience response



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Parents

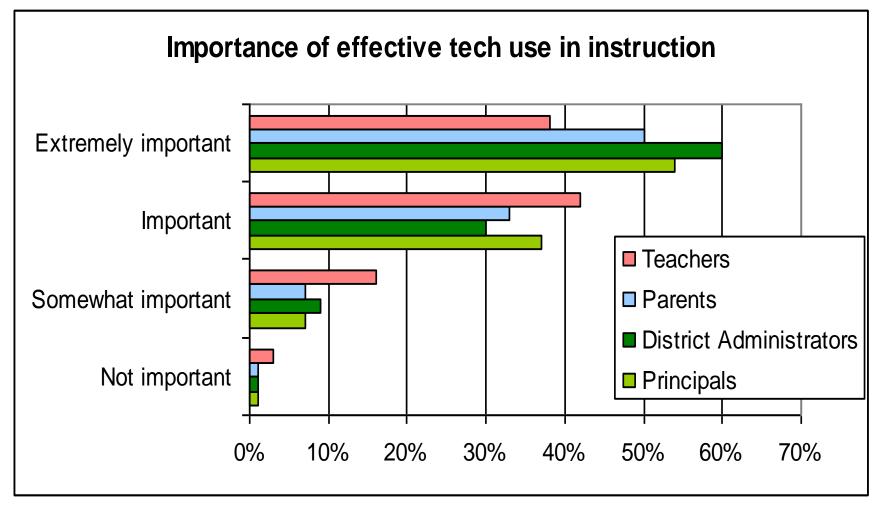
District administrators

School principals

Teachers

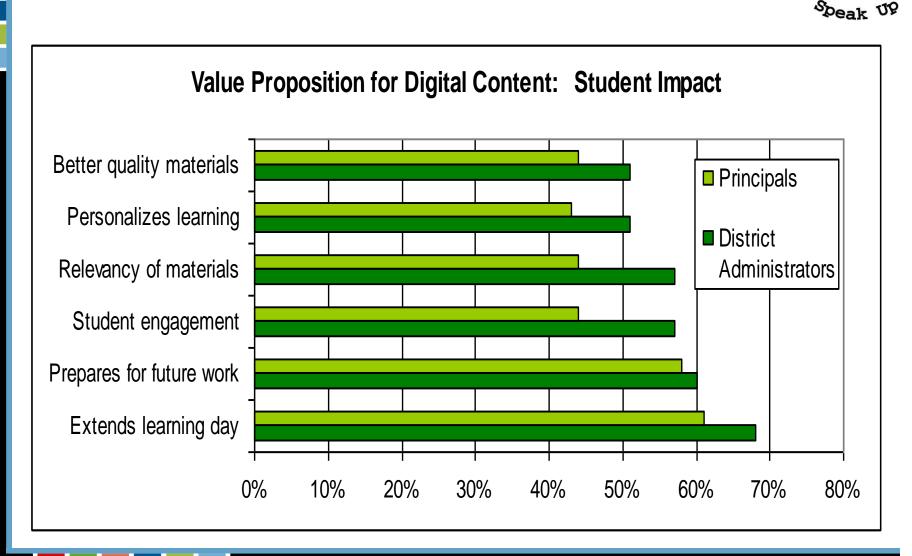
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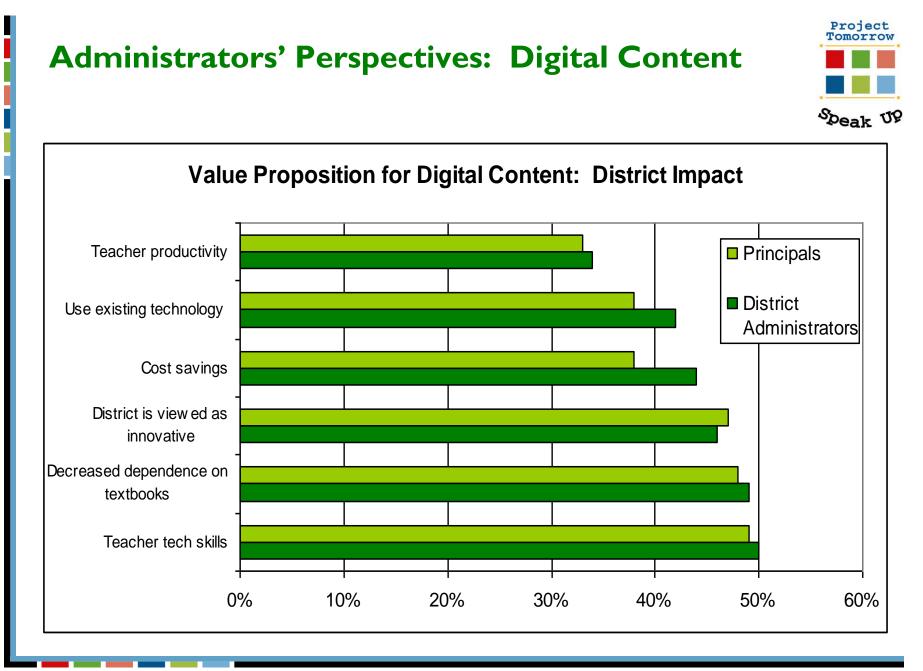




Administrators' Perspectives: Digital Content

Project





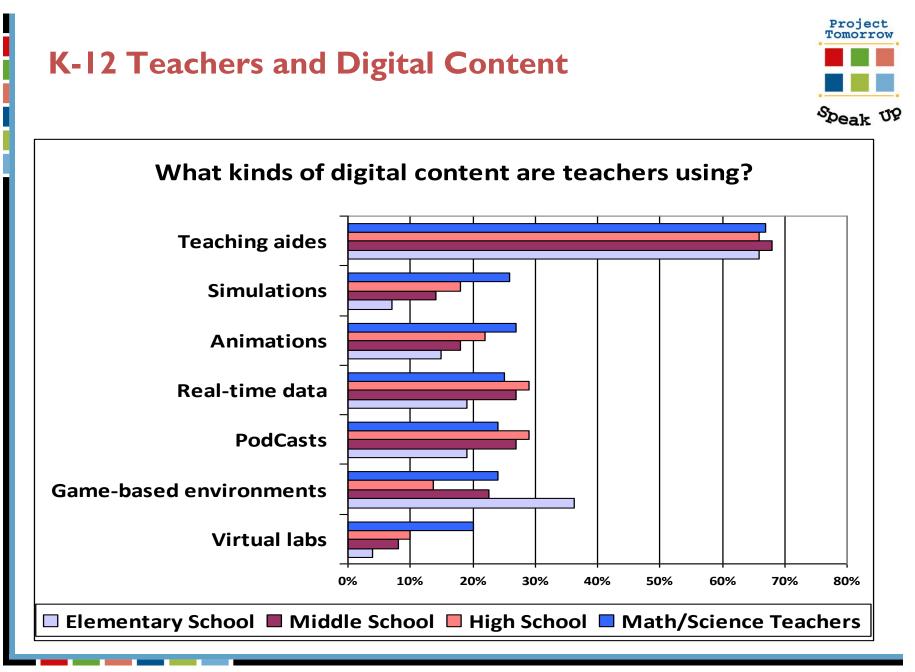
Administrators' Perspectives: Digital Content

Barriers to implementing digital resources within curriculum:

- Teachers are not trained in how to use 40% 43%
- Not enough computers to use 40% 35%
- Lack of funds to purchase resources
 30%
 30%
- Can't use instructional materials funds
 28%
 15%
- Not a priority 16% 11%

2009

2008



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Pre-Service Teachers vs. K-12 Teachers: Usage of Digital Content



Pre-Service Teachers

- Teaching aides (58%)
- Online curriculum (49%)
- Online textbooks (40%)
- Podcasts and videos (39%)
- Animations (21%)

K-I2 Teachers

- Teaching aides (66%)
- Online curriculum (27%)
- Online textbooks (23%)
- Podcasts and videos (24%)
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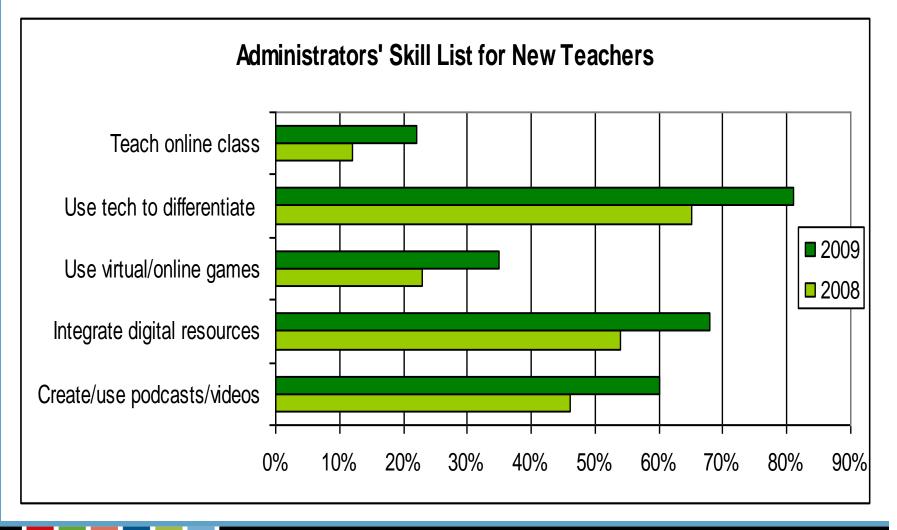
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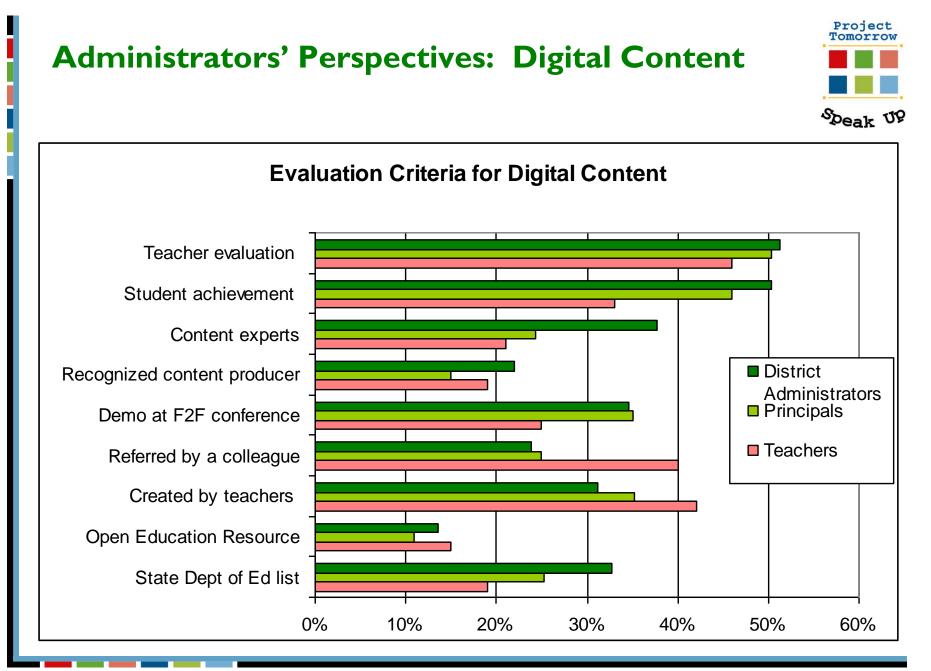
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No real change in K-12 teachers data from 2008 to 2009

Administrators: What kinds of skills do you want in your next generation of teachers?







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Imagine you are designing the ultimate school.

Which technology tools and services would have the greatest positive impact on learning?



Imagine you are designing the ultimate school.

Which technology tools and services would have the greatest positive impact on learning?

Are we all on the same page?

Creating Our Future: Students Speak Up about their Vision for 21st Century Learning

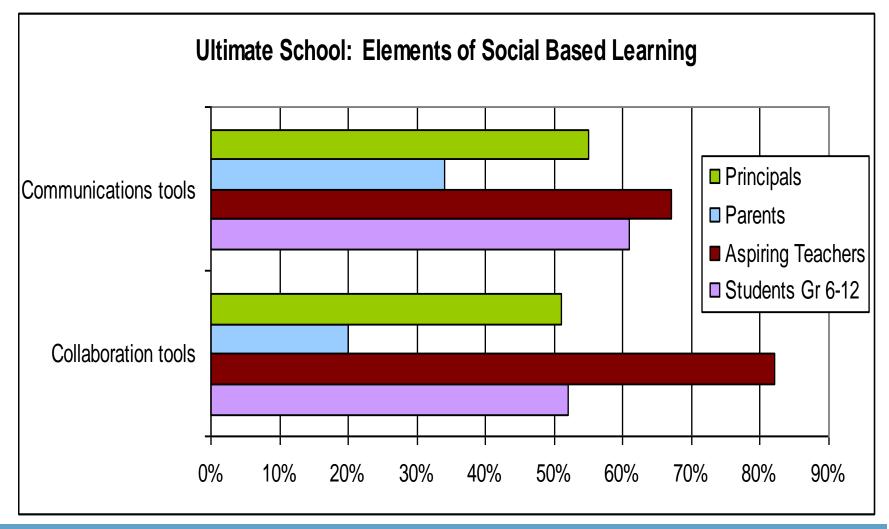


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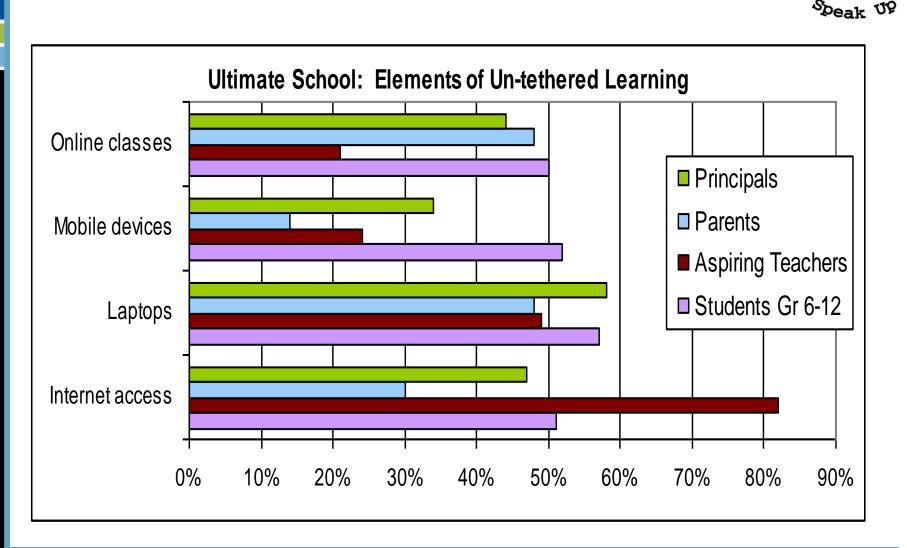
Digitally-rich learning

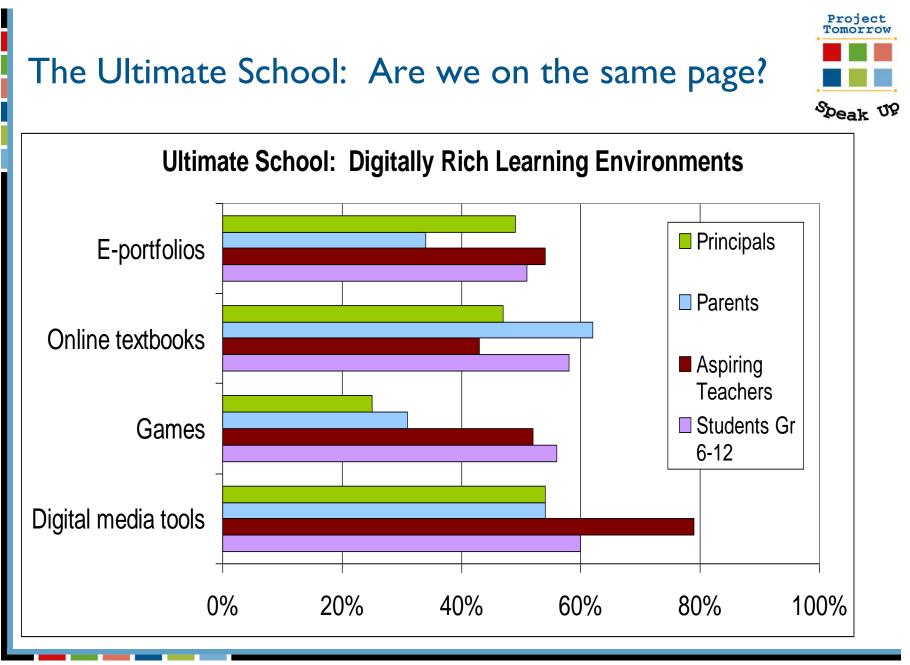




The Ultimate School: Are we on the same page?

Project



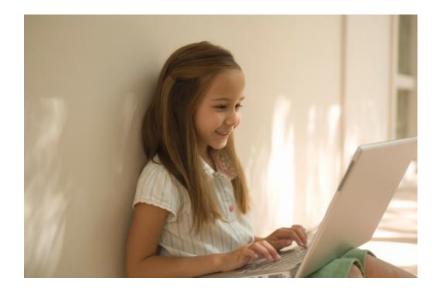


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Recommendations from the K-12 "Digital Advance Team"



Learning that is



Enabled

- Engaging
- Empowered

Speak Up 2009 National Data Findings



The era of the technology-enabled Free Agent Learner

Meet the Free Agent Learner!

Key Characteristics:

- Self directed learning
- Un-tethered to traditional education
- Expert at personal data aggregation
- Power of connections
- Creating new networks of experts
- Experiential learning is key make it real
- Everyone is a content developer
- Process as important as knowledge gained



Meet the Free Agent Learner!

Sampling of activities



Searched online for self-directed learning	37%
Found podcasts/videos to learn about something	23%
Took an online test or assessment on their own	18%
Used cell phone apps to self organize	17%
Used online writing tools to improve writing skills	14%
Found experts online to answer questions	12%

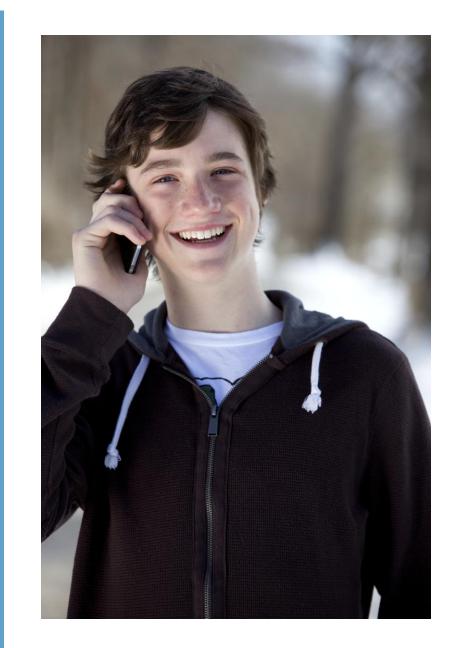
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Who is this?





Say hello to the Free Agent Learner –

a typical middle school student!

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More Speak Up? www.tomorrow.org



- National Speak Up Findings
- Additional data analysis from Speak Up 2009
- Presentations, podcasts and webinars
- Evaluation services

Reports and white papers

New report on mobile learning!



Thank you. Let's continue this conversation.

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