Inside the Classroom:
A Discussion with K-12 Educators about STEM Digital Resources

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Today’s Discussion: The Big Questions

- What **kinds of digital resources** do teachers use?
- How do educators **evaluate quality** in resources?
- What kinds of resources do educators really **want**?
- What are the **challenges or barriers** to using more digital resources?
- What is the **value of digital resources** to student achievement and productivity?
Introducing our Expert Panel

Arlington Public Schools/Kenmore Middle School (Virginia):

Michael Goodman, IT Coordinator
Jill Lyttle, 8th Grade Math Teacher
Michelle Meehan, 7th Grade Math Teacher

Forest Park High School/Prince William County Public Schools (Virginia):

Chuck Drake, iT Specialist and AP Coordinator
Brian Hackett, iT Resource Teacher

Red Lion Area Schools/Red Lion Senior High School (Pennsylvania):

Jared Mader, Director of Technology Services
Ben Smith, Physics Teacher and Science Department Chair
Our interest in this topic:

- **Speak Up National Research Findings**
- **Our other evaluation and research projects**
- **Our work with NSDL since 2006**
  
  Project TestDrive: 2006 - 2008  
  Current Resource Center Services
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
  - Services to help transform teaching and learning
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

1.85 million respondents
Speak Up 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
Release of two national reports
March 16 and May 5, 2010
Available at:  www.tomorrow.org

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
What is Project TestDrive?

National research project on the classroom effectiveness of K-12 STEM resources in the NSDL Supplemental to Digital Libraries go to School

Goals

- Evaluate the relevance and quality of existing resources, accessibility and impact in the classroom
- Develop rubrics for evaluating current and future NSDL content
- Develop recommendations for promoting NSDL to K-12 educators
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Join us tomorrow:

Digital Content Trends: Are We on the Same Page with Today’s Free Agent Learners?

Speak Up 2009 National Findings

Closing Keynote (with lunch!)
12:15 – 1:00 pm
Blue Room
**Speak Up 2010**

Online surveys available for:
- K-12 students
- Parents (in Spanish too!)
- Teachers
- Administrators
- Pre-service teachers

**Surveys open for input:**
Oct 18 – Dec 17, 2010

- No fee to participate. No limit on the # of surveys submitted. 100% confidential.
- Free online report for all Speak Up participating institutions w/ your data: Feb 2011
- Release of National Speak Up Findings in Congressional Briefings: Spring 2011
Thank you.
Let’s continue this conversation.

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