How to Foster Learning and Effective Teaching in 2020 Through Online Resources
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New insights from the Speak Up Research Project

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Welcome to today’s webinar!

Introduction to Project Tomorrow and the Speak Up Research Project

Share selected highlights from our Speak Up Research
  - How students and teachers value digital learning
  - Importance of enhanced bandwidth capacity to support new learning modalities and outcomes
  - Expectations for leveraging online resources in 2020 and beyond

Discussion with our panelists

Your turn! What are your questions or comments on this topic?

Additional resources for you
Special thank you to our sponsor

Spectrum ENTERPRISE
Introducing our guest panelists

Molly Nellman
Coordinator of 21st Century Learning
Centinela Valley Union High School District (CA)

Daniel Prouty
Director of Instructional Technology
Santee School District (CA)

Lauren Woolley
Technology Coordinator
Shelby County Schools (AL)
Nonprofit education organization supporting K-12 education since 1996

- Mission is to ensure today’s students are well prepared for the future
- Programs and research focus on role of innovation and new learning models within the education ecosystem.

**Speak Up Research Project:** national research to help education leaders make better decisions about new learning experiences

**Professional Learning, Evaluation & Efficacy Studies:** customized studies and experiences that support local decision-making and implementations of new learning models
About the Speak Up Project
www.tomorrow.org/speakup

- Annual research project since 2003
- We provide education leaders with a suite of online surveys to collect feedback from their stakeholders
- All preK-12 schools are eligible to participate
- Participating entities get summary reports with all locally collected data + state and national data for benchmarks
- 100% free turnkey service provided by Project Tomorrow
- National reports inform edu, biz and policy

Since 2003, over 5.7 million K-12 stakeholders have submitted a Speak Up survey
New series of reports around key topics in digital learning infrastructure today

Living for today or tomorrow with digital learning investments
*How E-rate funding supports K-12 school district capacity building as well as connectivity*
   - Webinar – November 19 – access through the EdWeek archive

Boost access and transform classroom learning for all
*New demands for digital learning held back by bandwidth capacity challenges*
   - Webinar – December 4 – access through the EdWeek archive

How to Foster Learning and Effective Teaching in 2020 through Online Resources
   - Webinar – today!

How to foster learning and effective teaching in 2020 through online resources

New insights from the Speak Up Research Project

New insights from the Speak Up Research Project

- How students and teachers value digital learning
- Importance of enhanced bandwidth capacity to support new learning modalities and outcomes
- Expectations for leveraging online resources in 2020 and beyond

Source:
Speak Up 2018-19 Findings representing the views of 334,000 K-12 students, parents, teachers and administrators from a diverse set of schools and districts - 26% urban, 41% rural, 33% suburban, and 59% title 1 eligible
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Looking back to think ahead ...

“In 2020 there will be many more educational videos, online class discussions, online games, texting from teachers or other ways for students and teachers to communicate online, and everyone will have their own tablet or laptop. That is what the school of the future looks like in my head. Everything will be online and everyone would learn more.”

6th grade girl from Maryland – in 2015
The use of online and digital resources in the classroom has changed significantly since 2015:

<table>
<thead>
<tr>
<th>Use of online and digital resources</th>
<th>Middle school students in 2015/16 reported:</th>
<th>Middle school students in 2018/19 reported:</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Use a personally assigned Chromebook to support learning</td>
<td>33%</td>
<td>64%</td>
</tr>
<tr>
<td>✓ Only device access is through the media center or library</td>
<td>43%</td>
<td>25%</td>
</tr>
<tr>
<td>✓ Play online or digital games in class</td>
<td>23%</td>
<td>48%</td>
</tr>
<tr>
<td>✓ Watch videos to support learning</td>
<td>34%</td>
<td>47%</td>
</tr>
</tbody>
</table>
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*New insights from the Speak Up Research Project*

**Case study: Mobile device access & usage in the classroom**

<table>
<thead>
<tr>
<th>Grades</th>
<th>Tablet</th>
<th>Laptop</th>
<th>Chromebook</th>
<th>Computer Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-2</td>
<td>43%</td>
<td>21%</td>
<td>51%</td>
<td>35%</td>
</tr>
<tr>
<td>Gr 3-5</td>
<td>20%</td>
<td>19%</td>
<td>71%</td>
<td>29%</td>
</tr>
<tr>
<td>Gr 6-8</td>
<td>14%</td>
<td>28%</td>
<td>64%</td>
<td>25%</td>
</tr>
<tr>
<td>Gr 9-12</td>
<td>7%</td>
<td>29%</td>
<td>49%</td>
<td>23%</td>
</tr>
</tbody>
</table>
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New insights from the Speak Up Research Project

Case study: Mobile device access & usage in the classroom

<table>
<thead>
<tr>
<th>Teacher-directed activities:</th>
</tr>
</thead>
<tbody>
<tr>
<td>➢ Do Internet research</td>
</tr>
<tr>
<td>➢ Play education games</td>
</tr>
<tr>
<td>➢ Take online tests</td>
</tr>
<tr>
<td>➢ Creating docs to share</td>
</tr>
<tr>
<td>➢ Work on projects w/classmates</td>
</tr>
<tr>
<td>➢ Read online articles</td>
</tr>
<tr>
<td>➢ Use online textbooks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student self-directed activities:</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Check grades</td>
</tr>
<tr>
<td>✓ Look up class info</td>
</tr>
<tr>
<td>✓ Using online dictionary</td>
</tr>
<tr>
<td>✓ Email teacher w/questions</td>
</tr>
<tr>
<td>✓ Take notes</td>
</tr>
<tr>
<td>✓ Receive reminders re: tests, projects</td>
</tr>
<tr>
<td>✓ Watch videos to support learning</td>
</tr>
</tbody>
</table>
But students and teachers see different impacts and outcomes associated with the use of online resources.

**Why?**

- Different personal experiences
- Outdated or incomplete assumptions about digital learning
- Perceptions of value based upon traditional instructional materials, without adaptation to online materials
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New insights from the Speak Up Research Project

Teachers’ views on the value of online resources within learning:

Of teachers say that their students are more motivated to learn when technology is part of the lesson or class activity:

- 51% of teachers

Same valuation for:

- 65% of elementary teachers
- 58% of teachers in 1:1 classroom environments

No real change in this percentage since 2009
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New insights from the Speak Up Research Project

Teachers’ views on the value of online resources within learning:

**Technology supports personalized learning**

<table>
<thead>
<tr>
<th>As a result of how I have integrated technology within my practice, I am now…</th>
<th>Percentage of teachers who agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2014</td>
</tr>
<tr>
<td>Better able to differentiate instruction</td>
<td>26%</td>
</tr>
<tr>
<td>Able to give my students more personalized attention</td>
<td>21%</td>
</tr>
<tr>
<td>More aware of what my students are learning and who needs help</td>
<td>22%</td>
</tr>
<tr>
<td>Spending more time with individual students to help them understand the content</td>
<td>17%</td>
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New insights from the Speak Up Research Project

Students’ views on the value of online resources within learning:

Technology supports development of college & career ready skills

<table>
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<th>As a result of using technology for learning at school, I am ...</th>
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<td></td>
<td>Grade 6-8</td>
</tr>
<tr>
<td>Developing creativity skills</td>
<td>55%</td>
</tr>
<tr>
<td>Collaborating more with classmates</td>
<td>48%</td>
</tr>
<tr>
<td>Applying what I have learned to practical problems</td>
<td>48%</td>
</tr>
<tr>
<td>Developing critical thinking and problem-solving skills</td>
<td>47%</td>
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*New insights from the Speak Up Research Project*

Students’ views on the value of online resources within learning:

**Technology changes the learning process for students**

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<td></td>
<td>Grade 6-8</td>
</tr>
<tr>
<td>Ability to learn at my own pace</td>
<td>56%</td>
</tr>
<tr>
<td>In control of my learning process</td>
<td>50%</td>
</tr>
<tr>
<td>Taking ownership of my own learning</td>
<td>42%</td>
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Students’ views on the value of online resources within learning:

Technology changes the learning process for students

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More motivated or engaged in learning? Only 1/3 of students in grades 6-12 identify that as a top benefit of digital learning
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New insights from the Speak Up Research Project

What obstacles do students face using technology at school for learning?

*Top responses from students in grades 6-12:*

1. The Internet is too slow

2. Teachers limit our technology use in class

3. There are too many rules at school that limit technology use
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What obstacles do students face using technology at school for learning?  

Top responses from students in grades 6-12:

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2. Teachers limit our technology use in class

3. There are too many rules at school that limit technology use

How are we “sizing” demand?

Are our teachers “ready” for transformative digital learning?

Does our thinking about “access and equity” need to change?
How are we “sizing” demand?

New challenges impacting digital learning growth: current state regarding bandwidth capacity

- 50%: “We have enough bandwidth to meet all our digital learning needs today”
- 26%: “Things are relatively okay, but we have intermittent problems with our bandwidth capacity”
- 24%: “We are not meeting our current or projected demands for bandwidth capacity to support digital learning”
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*New insights from the Speak Up Research Project*

If bandwidth was not a limitation, how would your district leverage online resources to support more effective teaching and learning?
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New insights from the Speak Up Research Project

Supporting teaching and learning in 2020 and beyond

<table>
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<th>Wish list if they had enhanced bandwidth</th>
<th>Percentage of district technology leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>intermittent problems with bandwidth capacity</td>
</tr>
<tr>
<td>✓ Increased use of videos and other multimedia resources</td>
<td>54%</td>
</tr>
<tr>
<td>✓ Greater usage of online curricula</td>
<td>42%</td>
</tr>
<tr>
<td>✓ Widespread access to cloud collaboration tools</td>
<td>30%</td>
</tr>
<tr>
<td>✓ Expand student access to the school network after school hours</td>
<td>32%</td>
</tr>
<tr>
<td>✓ Facilitate more online professional learning experiences for teachers and staff</td>
<td>33%</td>
</tr>
<tr>
<td>✓ Implement new communications and community engagement tools</td>
<td>32%</td>
</tr>
<tr>
<td>✓ Provide community access to school resources and the Internet</td>
<td>26%</td>
</tr>
</tbody>
</table>
Key findings from this new report:

✓ Teachers and students value digital learning in different ways – those differences are important to recognize when planning for the future.

✓ While students are using online and digital resources in class more than ever, Internet connectivity and teachers’ reluctance to change instructional practices may be holding back innovation.

✓ School district leaders have a clear idea on how to leverage enhanced bandwidth to support both student learning and teacher effectiveness.
Let's talk with our guest panelists

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Your turn

Your questions, thoughts, comments, ideas
More resources available at www.tomorrow.org

National Speak Up reports and infographics

Targeted and thematic reports
- Digital learning funding
- School communications
- Mobile learning
- Blended learning outcomes
- Coding and creativity

Presentations, podcasts and webinars

Services: consulting, workshops, evaluation and efficacy studies

✓ We have expertise in the evaluation of mobile implementations, new classroom models and digital content usage

✓ We facilitate leadership development workshops such as:
  • Workshops to help districts develop responsive messages and visions
  • Workshops that help districts interpret feedback data from stakeholders
Speak Up is open now for school and district participation
Learn more at: www.tomorrow.org/speakup

Online surveys available for:
- K-12 students – individual + group
- Parents – English and Spanish
- Teachers
- Librarians/Media Specialists
- School Site & District Administrators
- Technology Leaders
- Community Members
- Communications Officers

- Surveys open from now through June: use them when it makes sense for your district
- Two formats: multi-thematic Speak Up 360 or quick, single theme Speak Up Snapshots
- 100% free – with full data reports for you!
- Use Speak Up to learn how to translate the views of your stakeholders into assets
Your partner in connected learning

Spectrum ENTERPRISE

For more information visit
enterprise.spectrum.com/E-rate2020
Thank you for joining us today!

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