Creating Future-Ready Schools

Richard Culatta, Director
Office of Educational Technology • US Department of Education
Technology Spurs Innovation
Digital learning requires at least 100Mbps to the classroom. Only 20% of schools in the U.S. have sufficient bandwidth in the classroom to support digital learning.
Required Bandwidth

Digital learning requires at least 100Mbps to the classroom. Only 20% of schools in the U.S. have sufficient bandwidth in the classroom to support digital learning.

- 20% of schools have 100+Mbps
- 80% of schools have less than 100Mbps
Required Bandwidth

Digital learning requires at least 100Mbps to the classroom. Only 20% of schools in the U.S. have sufficient bandwidth in the classroom to support digital learning.
“In a country where we expect free wi-fi with our coffee, we should definitely demand it in our schools”

-President Obama
ConnectED Initiative

+ Broadband to the classroom
+ Affordable devices
+ Prepared Teachers
+ Engaging digital content
### Universal Service Fee

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>Federal Universal Service Charge</td>
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### eRate

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### Important Information

- Please refer to your AT&T Homephone, high-speed Internet, and digital TV service for details.
- The Late Fee Collection Fee of $19.95 will be assessed if payment is not received or is late.

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**Funding Connectivity**

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**Universal Service Fee**

**eRate**
62 MILLION

DON'T USE THE INTERNET
LET'S GET EVERYONE ONLINE.
Data is Personalizing our Lives
Never completes writing assignments

Speaks Spanish

Reads at a 6th grade level

Loves baseball

Knows the name of every state capitol

Has dyslexia

Can't multiply 5s
Technology to personalize
Learning Dashboards
Congratulations! John successfully completed a group of Learning lessons.

In this unit, John demonstrated a strong understanding of ways to efficiently build amounts up to 100 by making use of groups of ten. Building amounts like this is evidence that he is developing a strong sense of our number system. Understanding these number relationships, in particular how groups of tens and units can be used to build amounts up to 100, underlies the important mathematical ideas related to place value in our base-ten number system.

Here’s a game that will give James a chance to talk about the math he is learning. It will give John a chance to show you what he knows so you can celebrate his progress!

On-the-Run: Pick a Number

Pick a number between 11 and 40 and discuss ways to make it. For example, 32 could be made with 3 tens and 2 units, or with 2 tens, 2 fives, and 2 units, or with 2 tens and 12 units, etc.
the WHITE HOUSE

STUDENT FILM FESTIVAL
Thanks!

http://tech.ed.gov

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@OfficeOfEdTech
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Education Technology Integration and the Hispanic Community

How to bridge the cultural gap in a classroom, and structure student learning to meet student needs.
Hispanic students have a rich culture, and a strong set of morals that should be recognized and valued.

- Build student trust by letting them know that no matter what they have been told, or what they think that you, their teacher, believes in their success.

- Surprise them with new ways of thinking and seeing the world, but never put their culture into a negative light.
Student buy-in is the gateway to advanced learning,
  ◦ allowing them to make choices on how they use the tools will create student investment.

The teacher is the facilitator to the student’s education,
  ◦ building student confidence in their abilities to generate new ideas is the teachers goal.
My Approach to Technology Use in the Classroom

- Students understand the device use limits that are placed on them in the classroom,
  - but limits are only one side of the scale.

- Devices are more than just tools, they are the gateways to the rest of the world,
  - students should be given an opportunity for structured exploration.
Language, Understanding, and Methods of Learning

- Technology allows the students to explore concepts through different methods,
  - giving them the opportunity to build knowledge.

- Students can use the tools to bridge language skills and improve their vocabulary.

- Videos, audio books, slide shows, and banks of other resources to build from.
Don’t Panic, technology will fail us at times.
   ◦ Have a backup plan that does NOT include handouts, but does include class discussions about technology responsibility.

You will not understand or be up to date with your students use of the social technology.
   ◦ DO NOT TRY. They will always be one step ahead.

But use the tools they are familiar with for socializing, as tools for education.
   ◦ For example: Tumblr as a bellwork writing tool.
The Future of the Students

My final project

- The students need a grand goal that they come up with.
- Have them see themselves as successful strong leaders.
- And then have them prove it to you.
Visit my website
  ◦ Misagonzales.com

or

Please Email me directly at
  ◦ misagonzales@gmail.com