Online Curriculum

As education and the learning process rely more and more on interactive digital media, communications and devices, schools and their students, teachers and staff rely more heavily on their connection to the Internet. From collaborative learning to eBooks on mobile devices, online testing to flipped classrooms, more and more, the currency for education's future is the performance, stability and reliability of the Internet connection.

Just over the horizon are a variety of initiatives, models, and content that can significantly and negatively impact network performance. Now is the time to understand these challenges and plan accordingly. Proactive schools won't be stuck mitigating the impact on their network; instead, they'll be enhancing education by facilitating the future of learning.

Fast-Growing Online Learning Programs

- *Flipped Classrooms*
- *eTextbooks that rely on the Internet*
- *State Education Departments developing online curricula, learning games, and testing*
- *Supplemental learning content*
- *Video chat/conferencing*
- *More devices (BYOD, 1 to 1)*

What's Being Accessed?

A PBS LearningMedia survey shows the most commonly used Tech Resources in the classroom are: Websites (**56%** of respondents report using), online images (**44%** use), and online games and activities (**43%** use).[1]

56% Web sites **44%** images **43%** games
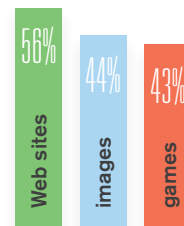
YouTube for Schools[2] | YouTube FOR SCHOOLS

- **540K+** educational videos
- **Over 750** educational channels
- **Over 3B** educational video view on YouTube in 2011[3]

540+ 3,000,000,000 750

DiscoveryEducation.com[4] | DISCOVERY EDUCATION

- 2010-2011 - **65%** year over year growth in traffic (As measured among Cymphonix customers' usage)
- Alexa Rank - **4,493** (US)
- Over **50K** high def video clips
- Over **100K** educator members

65%
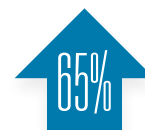
Brainpop[5]

- Over **1M app downloads** (brainpop.com)
- More than **11M visits** per month
- Teacher community of **over 135K**[6]

1M

PBSLearningMedia.org[7]

- Over **16K free digital assets**
- **Free content** from NASA, the Library of Congress, the National Archives and more
- Includes index of PBS programming, streaming video, images, photos, and audio

free Content

References: 1 http://www.pbs.org/about/media/about/cms_page_media/453/FETC-Websites-Commonly-Used_1.jpg / 2 http://thejournal.com/articles/2012/01/23/pbs-learningmedia-report-finds-teachers-want-more-access-to-technology-digital-resources.aspx / 3 http://www.slideshare.net/swissnexSF/youtube-edu-presentation / 4 DiscoverEducation.com / 3 http://www.blogtalkradio.com/computerexplorers/2012/02/09/popping-with-questions-for-brainpop / 6 http://www.blogtalkradio.com/computerexplorers/2012/02/09/popping-with-questions-for-brainpop / 7 http://www.pbs.org/about/news/archive/2011/learningmedia-learning-registry

TED-Ed.com[8] | TED

- Over *2.4 million viewers* since the 3/12/2012 launch
- Over *42K subscribers* in first five weeks
- Alexa ranking = *870* (US)

2.4M

Khan Academy[9]

- *Over 3200* 10 minutes videos
- Media rich, interactive online "challenges"
- *Real-time* performance data

3200

Google Apps for Education[10] | Google

- Over *10M users*
- No cost, ad-free hosted solutions for email, collaborative learning, video, more
- *25 GB storage* space per user

10,000,000

State-level testing

- Online testing reached *20.4%* of US high stakes academic testing segment by 2010, and is expected to *grow to 32%* by 2014

"Although the benefits of online testing are clear, the biggest challenge hampering growth is infrastructure, ranging from lack of connectivity to inadequate bandwidth, notably in rural areas."

Collaborative learning[11]

- *34%* of K-12 students access Ed-Fi-enabled tools through the Shared Learning Collaborative

References: 8 http://www.marketwatch.com/story/ted-ed-launches-groundbreaking-website-with-new-tools-for-customized-learning-2012-04-25 / **9** KhanAcademy.com / http:// **10** www.google.com/apps/intl/en/edu / **11** Simba Information, K-12 Testing Market Forecast, Oct. 7 2010