

EDTECH CHEAT SHEET

Understanding New Trends in Educational Technology

Trying to keep up with all of the new buzzwords in the booming Educational Technology sector can leave you feeling like a kindergartener in a calculus class.

Don't tell your teacher, but we put together a little cheat sheet to keep you informed on what's happening inside and outside of today's most innovative schools.

Think we're missing any major terms or trends? Let us know on Twitter.

 @GoBoundless

MOOC?

Gamification?

Virtual Classroom?

Digital Storytelling?



1:1 Technology

Providing every student with a laptop or tablet to make learning more individualized, increase independence and extend academics beyond the classroom.

Also: much cooler than just giving out stickers.



Adaptive Learning

Software that adapts its content and pacing to the current knowledge level of the user, so it's almost like having a personal tailor for your education.

Asynchronous Learning

A student-centered teaching method that uses online resources to facilitate learning without requiring students and instructors be in the same place at the same time. Yes, students--you can wear your pajamas to class.



Blended Learning

A sure recipe for success: Mix one part students learning at school and one part students engaging with content delivered online. Blend well for best results.

Optional--Adjust when, where and how students use the online content.

Course Management System (CMS)

Class websites can be a big undertaking.

A CMS keeps teachers and students organized with digital resources for class discussion, document management, homework submission and course scheduling.

Differentiated Learning

Programs or tools to present learning materials in creative ways that match every student's individual learning style, from typical lectures to fun games and quizzes.

Though the tools used depend on the student, the learning goals are the same for all.

Digital Storytelling

Once upon a time*, there were students and instructors who used digital tools to tell exciting stories in educational ways, like showing off research or building course assignments.

*It was 2012.

E-Books

Put down your highlighters and Post-Its--e-books are completely digital and are usually read on computers or e-readers.



E-Learning

A web-based learning environment that allows instructors and students to interact through the computer without worrying about time or place.

Don't fret: telepathy skills are not yet required, just the Internet.

Electronic Classroom

A classroom equipped with multimedia devices to enhance the learning experience.

Flipped Classroom

Wouldn't it be convenient to do your "homework" at school?

In a flipped classroom, students learn lessons at home with the help of videos or other instructional materials and spend their valuable classroom time doing assignments with help from their instructor.



Gamification

Using game design and mechanics to drive motivation and increase engagement in learning.

Let the games begin!



Individualized Learning

When a group of students all receive the same content but work through it at their own pace--anything from slow and steady to fast and furious.

Informal Learning

Learning that occurs outside a traditional school, i.e. forget having to lug around that heavy backpack.

Instructional Technology

Combining education and technology to enhance a curriculum. Instructors can alter how they deliver content to students depending on the technology available at their school. Hopefully, but not always, more advanced than Morse code...



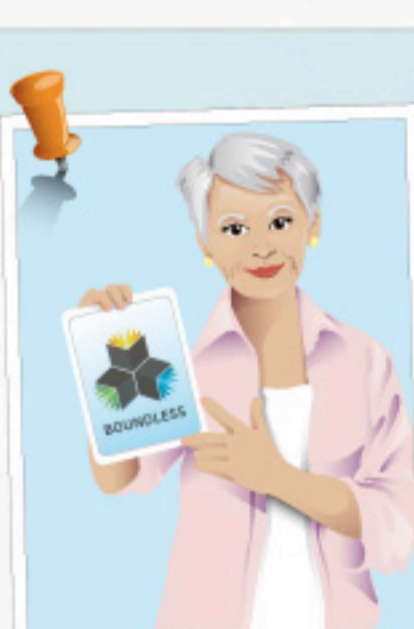
Learning Platform

An interactive online service organized around a specific topic that gives users the ability to submit and receive information and learning materials.

Lifelong Learning

There's no rule that says learning stops after a certain age.

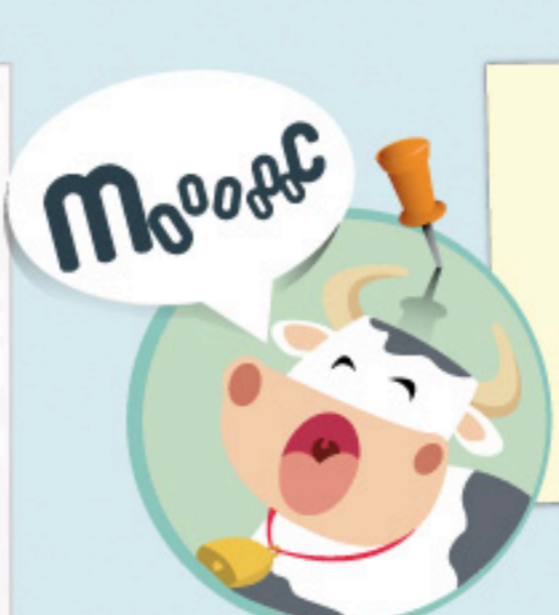
Lifelong learning continues education informally for personal enrichment, usually after finishing formal education.



Massive Open Online Course (MOOC)

A course in which materials and instruction are delivered over the Internet to users around the world. The course is designed to connect instructors with learners interested in a common topic and works best with a large user-base and open content.

Of course, the first step toward completing the course is learning how to pronounce MOOC...



Extra credit! How do you pronounce MOOC?

Hint: Try to sound like a cow with something caught in its throat.

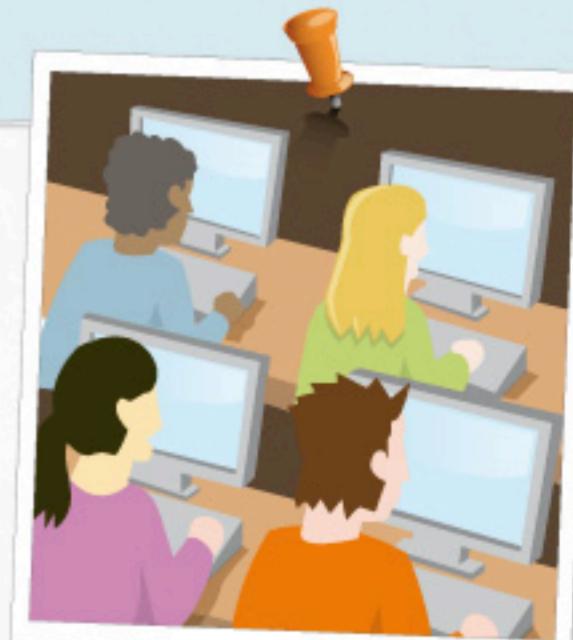
Open Educational Resources (OER)

Digital materials available for reuse and repurposing in teaching, researching and learning. These materials are made available through open licenses that allow them to be used through means not permitted under copyright, so the flow of knowledge is boundless.



Online Lab

Students learn almost exclusively online, and do so while logging in from a physical school setting. No lab coat or goggles required, unless you dig that look.



Personalized Learning

Unfortunately not all about monogrammed notebooks and book bags-- it's learning entirely geared toward the individual student.

The content, pace, structure and goals of instruction vary depending on the student's learning habits.

Synchronous Online Learning

A real-time learning situation in which immediate, two-way communication between instructor and participants is possible.

Instructors can even call on participants, so make sure you're paying attention!

Virtual Classroom

An online space where students and instructors interact.

Not to be confused with a video game, though engagement definitely improves if students think of it as one.



Virtual Learning Environment

An education system online that mimics real-world education by using virtual concepts for exams, assignments, classes and more.

You might even offer a virtual apple for some brownie points.

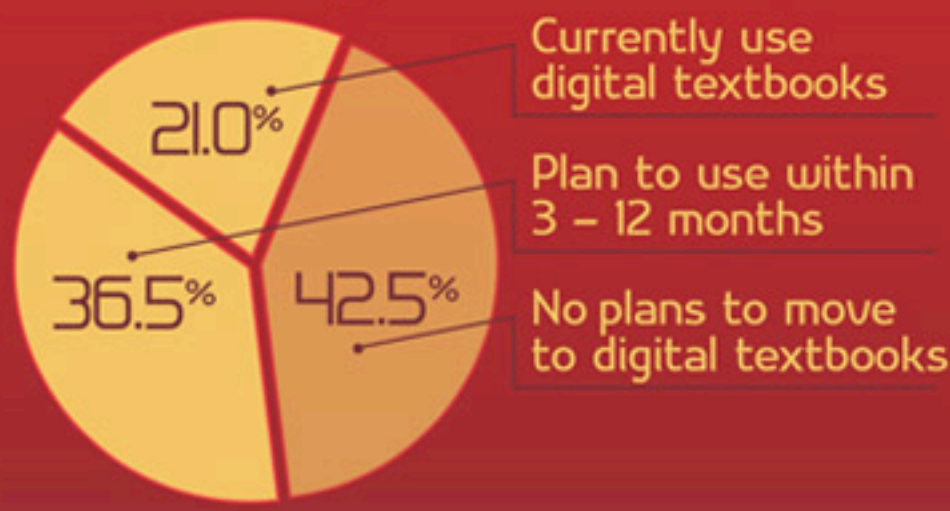


ADOPTION RATES OF NEW STYLES OF K-12 TEACHING



ENTERASYS CONDUCTED THE 2012 K-12 STYLES OF LEARNING SURVEY TO UNDERSTAND HOW QUICKLY K-12 SCHOOLS ARE MOVING TO NEW STYLES OF LEARNING AND HOW WELL THEIR NETWORK INFRASTRUCTURE CAN ACCOMMODATE THE MOVE. THE RESPONSES ARE PRESENTED BELOW.

Do You Use Digital Text Books at Your School?



More than **37%** say they plan to move to **ONLY DIGITAL TEXTBOOKS** within the near future (1-5 years)?



With your current network infrastructure, can you move to digital textbooks?

Yes, easily **26.3%** Possibly or with difficulty **73.7%**

How Well Does Your Network Infrastructure Handle VIDEO CONTENT In the Classroom?

Inadequate even for our current and short term needs _____
 Adequate for foreseeable future _____
 Not sure _____



As part of your CIPA and FCC Order 11-125 related activities, do you currently monitor student network and Internet access?

FCC Order 11-125 specifies that Internet safety policies must "...include monitoring the online activities of minors..."

Can monitor online activities: **84%**
 Not yet capable of monitoring student activities: **7%** Don't know: **9%**

BUT: With your current network infrastructure, can you customize each student's network access based on factors like their grade level?



Who uses ONLINE ASSESSMENT



Schools that plan to exclusively use online assessment for testing within 5 years: **46%**

With your current infrastructure, can you move to online assessment? **15%**
 Not possible or with difficulty

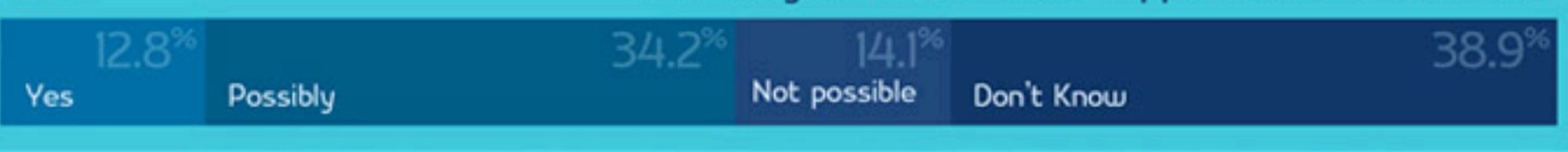
Is your school planning to adopt some usage of the

FLIPPED CLASSROOM model?

43% Currently use or plan to try the Flipped Classroom model.

In the next five years, **13%** of respondents plan to **COMPLETELY ADOPT** the flipped classroom model.

With your current network infrastructure, could you move to the flipped classroom mode?



When will Social Media be used in classrooms for teaching purposes?



Which social media platforms are you planning to use in your school?

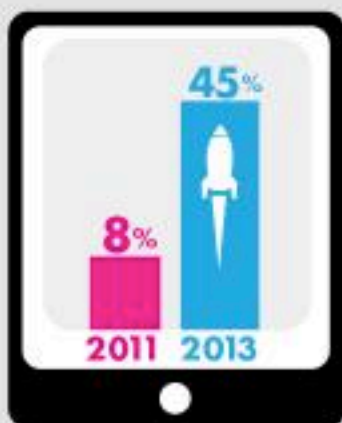


TECH TRENDS

THE BIG PICTURE

TEACHERS' TABLET USE

SKYROCKETED FROM 8% TO 45% IN JUST TWO SHORT YEARS



GETTING SOCIAL

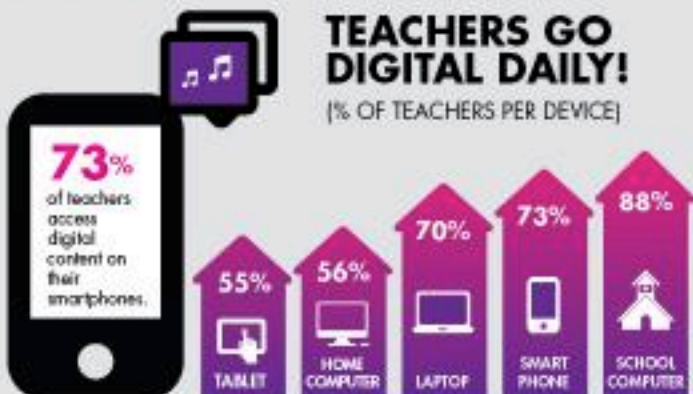


70%
39%

of teachers use social media to research or access online digital content for their classrooms
are exchanging ideas

TEACHERS GO DIGITAL DAILY!

(% OF TEACHERS PER DEVICE)



DOING THE HOMEWORK

89%

of administrators visit vendor sites to research purchases

ONLINE PROFESSIONAL DEVELOPMENT... IT'S GROWING.

3/4 of all teachers and administrators have taken an online PD course



44,081 SCHOOLS HAVE BUDGETS OF **\$50,000+** FOR TECHNOLOGY-RELATED TRAINING

3,122 DISTRICTS HAVE TECHNOLOGY BUDGETS OF **\$750,000+**

THE MOMENTUM IS GROWING.

Administrators plan to implement the following technologies in the next 5 years:

24%



iPods

28%



Tablets

27%



eReaders

TEACHERS AND EMAIL



89%

OF EDUCATORS READ EMAILS ON THEIR COMPUTERS DAILY...



55%

MORE THAN 50% BUY AS A RESULT OF AN EMAIL



64%

OF EDUCATORS READ EMAIL ON WIRELESS MOBILE DEVICES

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