

GRADING THE DIGITAL SCHOOL

# In Classroom of Future, Stagnant Scores



Jim Wilson/The New York Times

Students using an interactive whiteboard, part of an ambitious technology plan in the Kyrene School District in Arizona.

By MATT RICHTEL

Published: September 3, 2011

CHANDLER, Ariz. — Amy Furman, a seventh-grade English teacher here, roams among 31 students sitting at their desks or in clumps on the floor. They're studying Shakespeare's "As You Like It" — but not in any traditional way.

**Grading the Digital School** *The High-Tech Gamble* 

In this technology-centric classroom, students are bent over laptops, some

RECOMMEND

TWITTER

LINKEDIN

SIGN IN TO E-MAIL

PRINT

SINGLE PAGE

Log in to are sha Privacy

What'

Some of Palin's Cross to Divide

Ads by

Earn Y Course www.AF

K-8 Ho Compl Persor

Confli ACU C Top Co

Conflict

tour.Cal

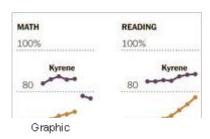
LPN to NLNAO Earn F www.Co

Learn Need Online

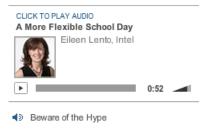
openles

Articles in this series will look at the intersection of education, technology and business as schools embrace digital learning.

### Multimedia



What Will School Look Like in 10 Years? The Times spoke with experts about how technology will shape classrooms in the future.



To hear from more experts, and to share your own predictions for the future of technology in the classroom, visit the Bits blog.



blogging or building Facebook pages from the perspective of Shakespeare's characters. One student compiles a song list from the Internet, picking a tune by the rapper Kanye West to express the emotions of Shakespeare's lovelorn Silvius.



The class, and the <u>Kyrene School District</u> as a whole, offer what some see as a utopian vision of education's future. Classrooms are decked out with laptops, big interactive screens and software that drills students on every basic subject. Under a ballot initiative approved in 2005, the district has invested roughly \$33 million in such technologies.

The digital push here aims to go far beyond gadgets to transform the very nature of the classroom, turning the teacher into a guide instead of a lecturer, wandering among students who learn at their own pace on Internet-connected devices.

"This is such a dynamic class," Ms. Furman says of her 21stcentury classroom. "I really hope it works."

Hope and enthusiasm are soaring here. But not test scores.

Since 2005, <u>scores in reading</u> and math have stagnated in Kyrene, even as statewide scores have risen.

To be sure, test scores can go up or down for many reasons. But to many education experts, something is not adding up — here and across the country. In a nutshell: schools are spending billions on technology, even as they cut budgets and lay off teachers, with little proof that this approach is improving basic learning.

This conundrum calls into question one of the most significant contemporary educational movements.

Advocates for giving schools a major technological upgrade — which include powerful educators, Silicon Valley titans and White House appointees — say digital devices let students learn at their own pace, teach skills needed in a

## **Times**



#### Subscr

Techr Inter Busi Con

1. Ste

2. TEX Tra

3. EDIT

Log in to based on

Log In



ALSO I The ju

nyti

**ADVER** 



Jim Wilson/The New York Times Molly Siegel and Christian Dedman, both 7, worked together with a laptop during a class in the Kyrene School District in Arizona.

modern economy and hold the attention of a generation weaned on gadgets.

Some backers of this idea say standardized tests, the most

widely used measure of student performance, don't capture the breadth of skills that computers can help develop. But they also concede that for now

**50**%

Ear

ma

8-W star

"The data is pretty weak. It's very difficult when we're pressed to come up with convincing data," said Tom Vander Ark, the former executive director for education at the Bill and Melinda Gates Foundation and an investor in educational technology companies. When it comes to showing results, he said, "We better put up or shut up."

there is no better way to gauge the educational value of expensive technology investments.

And yet, in virtually the same breath, he said change of a historic magnitude is inevitably coming to classrooms this decade: "It's one of the three or four biggest things happening in the world today."

Critics counter that, absent clear proof, schools are being motivated by a blind faith in technology and an overemphasis on digital skills — like using PowerPoint and multimedia tools — at the expense of math, reading and writing fundamentals. They say the technology advocates have it backward when they press to upgrade first and ask questions later.

The spending push comes as schools face tough financial choices. In Kyrene, for example, even as technology spending has grown, the rest of the district's budget has shrunk, leading to bigger classes and fewer periods of music, art and physical education.

At the same time, the district's use of technology has earned it widespread praise. It is upheld as a model of success by the National School Boards Association, which in 2008 organized a visit by 100 educators from 17 states who came to see how the district was innovating.

Ads by Sar See S New I sams

1 | 2 | 3 | 4 | 5 | 6 | NEXT PAGE »

A version of this article appeared in print on September 4, 2011, on page A1 of the New York edition with the headline: In Classroom of Future, Stagnant Scores.



Get 50% Off The New York Times & Free All Digital Access.

INSIDE 1

#### More Headlines From Around the Web

Sponsored Links

**FABULOSAMENTE LATINA** 

Nellie Reyes: Model of Resilience

FORA.TV

Bessie Schönberg: How to Look at Dance

College Students Worse at Managing Money, Survey

**Shows** 

MAINSTREET

How to Go Back to School When You're Not in Your 20s

Ads by Google

**ITT Technical Institute** 

Attend Class in Getzville Area Official Site. Learn more today! www.ITT-Tech.edu/NewYork

#### **K12 Online Classes**

Give Your Kids An Academic Edge. K12 Online Curriculum. Learn More! www.K12.com

#### **Online Seminary School**

Attend Seminary School Online. Accredited, Reputable & Affordable. Seminary.lu-online.com

ARTS »



Day of Pain, Through TV's Prism

OPINION »

## Op-Ed: When Quoting Verse, One Must Be Terse

American poetry criticism faces a major problem: copyright law. U.S. »



Vegetable Gardens in a **Fallow Economy** 

**OPINION** »



what's this?

Disunion: General Frémont's 'She-Merrimac'

ART



Spa

Home World U.S. N.Y. / Region Business Technology Science Health Sports Opinion Arts Style © 2011 The New York Times Company | Privacy | Your Ad Choices | Terms of Service | Terms of Sale | Corrections