

## What Administrators Should Know and Do With Technology



Ben Smith and Jared Mader  
[www.edtechinnovators.com](http://www.edtechinnovators.com)

Red Lion Area School District  
Wednesday, March 2, 2011



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## About Us

### Ben Smith:

- » Physics Teacher
- » K-12 Science Coordinator
- » Technology Resource Teacher
- » Keystone Technology Integrator
- » Doctoral Student in Instructional Technology
- » STAR Discovery Educator
- » ISTE Board of Directors
- » ISTE Faculty

### Jared Mader:

- » Director of Technology
- » Former Chemistry Teacher
- » Technology Staff Development Trainer
- » Keystone Technology Integrator
- » M.Ed Instructional Technology
- » STAR Discovery Educator
- » ISTE Consultant/Faculty



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## Our Website



[www.edtechinnovators.com](http://www.edtechinnovators.com)



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The diagram features a central title "ISTE's Educational Technology Standards for Administrators" surrounded by five interconnected circles: "Digital-Age Learning Culture", "Visionary Leadership", "Digital Citizenship", "Systemic Improvement", and "Excellence in Professional Practice". A small book cover titled "National Educational Technology Standards for Administrators" is shown in the bottom right corner.

Required Reading: NETS-A available through [www.iste.org](http://www.iste.org)

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## Visionary Leadership

A graphic with a central quote: "Success and failure are not the result of chance or fate, but of leadership." The word "leadership" is highlighted in red. A small "Visionary Leadership" icon is on the left, and the "National Educational Technology Standards for Administrators" book cover is on the right.

Image from <http://www.501c3.org/blog/>

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A graphic showing a 3D scene with a yellow figure placing a puzzle piece on a path leading to a platform with the word "GOAL" in red. The words "inspire", "engage", and "advocate" are written in italics around the scene. A "Visionary Leadership" icon is in the top left, and the "National Educational Technology Standards for Administrators" book cover is in the bottom right.

Required Reading: NETS-A available through [www.iste.org](http://www.iste.org)

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**Shared Vision**





Image from <http://higherfocusleadership.wordpress.com/>




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**Our Vision**



- Students will use technology seamlessly as a regular part of their education
- Each student will come to class with their own computing device
- All of the computing devices will be interconnected
- Teachers and Students will have the skills necessary to appropriately use the Hardware and Software




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**SIP**



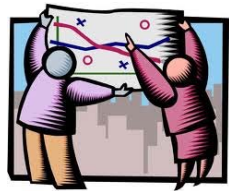





Image from <http://www.ccps.org/pves/school%20improvement%20plan.html>  
 Image from <http://www.eacs.k12.in.us/rhs/page.php?pid=401>




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**Advocate**

Visionary Leadership




<http://www.edtechactionnetwork.org/>  
Image from <http://tishyshi.wordpress.com/2007/12/19/advocacy-webinar/>

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**Digital Age Skills**

Visionary Leadership

- Leaders must demand that teachers create opportunity for students to:
  - » Construct new understandings
  - » Solve problems
  - » Make decisions
  - » Communicate and express themselves
  - » Understand complex issues
  - » Work collaboratively
  - » Set goals and work to a timeline
  - » Make ethical choices



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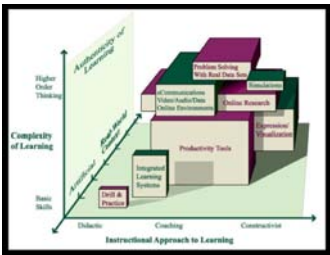
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**Digital-Age Learning Culture**

Digital-Age Learning Culture

*model  
promote  
ensure  
provide*



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<http://www.metiri.com/Solutions/RangeOfUse.htm>

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Digital-Age Learning Culture

## Why Use Technology?

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Image from <http://www.21stcenturyskills.org/>

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Digital-Age Learning Culture

## Educational Leadership...

- » **Curriculum** must drive the use of technology as a tool to facilitate student-centered learning
- » **Scaffolding** technology skills has to occur prior to students making thoughtful choices about its appropriate use
- » Degree to which students can utilize technology is dependent upon their **cognitive** understanding.

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Digital-Age Learning Culture

for teachers

## Success in a Digital Age

Professional

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Digital-Age Learning Culture

for students

## Success in the Digital Age

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Marc Prensky - Digital Natives, Digital Immigrants - <http://www.iste.org/news/iste-booklet.aspx>

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Digital-Age Learning Culture

PROJECT TOMORROW  
[www.tomorrow.org](http://www.tomorrow.org)

Speak Up

Figure 2: Mobile devices benefit students and teachers

Benefit	District Administrators (n=350)	Principals (n=2,047)	Teachers (n=34,562)
Extends school day	64%	64%	64%
Improves communications	51%	51%	51%
Develops teachers' technology skills	41%	41%	41%
Increases teacher productivity	29%	29%	29%

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Required Reading: Speak Up Report. Available at [www.tomorrow.org](http://www.tomorrow.org)

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## Excellence in Professional Practice

*stay abreast*      *allocate*

*model communication*      *facillitate*

*collaborate*

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E Excellence in Professional Practice

### Increasing Complexity of Technology Skills

Technology choices become autonomous

Increasing Levels of Cognition

Curriculum mastery deepens

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E Excellence in Professional Practice

# LEARNING COMMUNITIES

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Required Reading: NETS-A available through [www.iste.org](http://www.iste.org)

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E Excellence in Professional Practice

NAEP Data - Wenglinsky (2000)  
Sanders and Rivers (1996)

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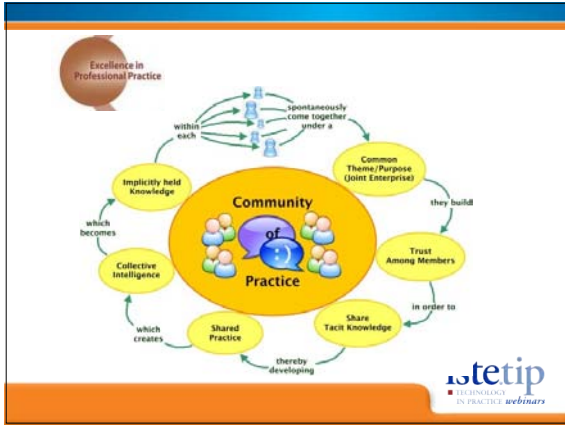
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## Systemic Improvement

*recruit*

*leverage partnerships*

*infrastructure*

*lead purposeful change*

*establish metrics*

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Image from <http://www.globalsearchnetwork.com/continuous-improvement.aspx>

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Systemic Improvement

DATA-DRIVEN DECISION MAKING FOR EFFECTIVE SCHOOL LEADERSHIP

Anthony G. Pociaro

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Required Reading: NETS-A available through [www.iste.org](http://www.iste.org)

If your target audience isn't listening, it's not their fault, it's yours.  
(Self-Guide, Small is the New Big, p. 14)

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**Systemic Improvement**

EdTechInnovators

**Curricular Planning Guide for Technology Integration**

**Increasing Complexity of Technology Skills**  
Technology becomes more sophisticated

**Increasing Levels of Cognition**  
Curriculum mastery increases

Activities 1 through 7, each with a corresponding Technology Learning box below it.

**Strategies**  
 To each activity box, list the appropriate skills and give a brief description of the activity.  
 In the box below, list the technology that students should apply.

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**Digital Citizenship**

*policies*

*social interactions*

*cultural understanding*

*equitable access*

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**Digital Citizenship**

**KEEP YOUR KIDS SAFE Online**

**National Educational Technology Standards for Administrators**

Required Reading: NETS-A available through [www.iste.org](http://www.iste.org)

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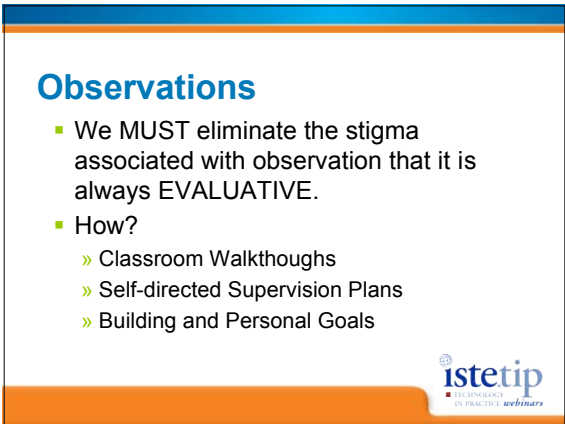
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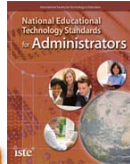
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## Getting Started

- Secure stakeholders
- Adopt or Compare to the NETS-S,-T,-A
- Look for local experts
- Secure adequate resources
- Work digitally



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## Questions

- Email: [info@edtechinnovators.com](mailto:info@edtechinnovators.com)
- Website: [www.edtechinnovators.com](http://www.edtechinnovators.com)



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