

Tools *for* LEARNING SCHOOLS

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CROSSING *the* DIGITAL DIVIDE

By Valerie von Frank

The great digital divide exists mainly in educators' minds, according to educational technology leaders who say schools have few excuses for not using technology across the curriculum.

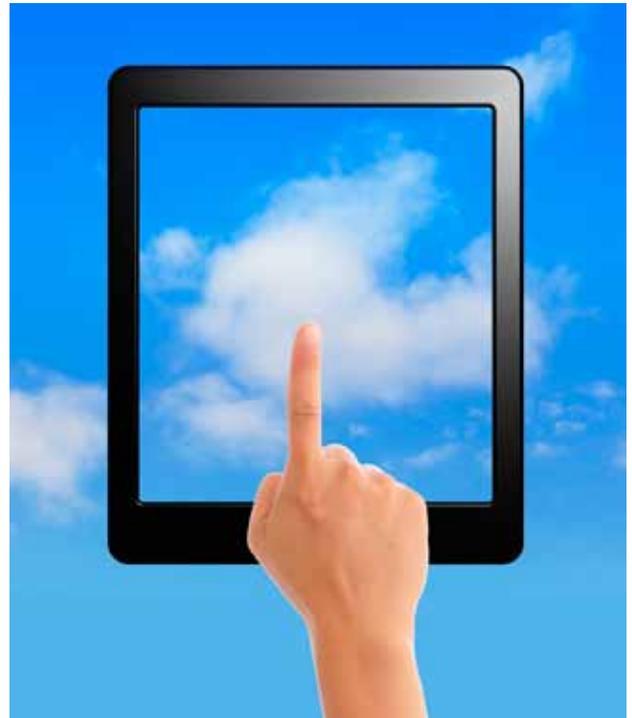
Howard Pitler is chief program officer at McREL, working with schools, districts, and state agencies on technology for the education research organization. Pitler said schools that sometimes complain about a lack of hardware or training are not always taking advantage of the options they *do* have.

A Pew Research Center survey that explored technology use among 802 youth ages 12-17 and their parents found:

- 78% of youth now have a cell phone, and almost half (47%) of them own smartphones. That translates into 37% of all youth who have smartphones.
- 23% of youth have a tablet computer.
- 95% of youth use the Internet.
- 93% of youth have a computer or have access to one at home.

(Madden, Lenhart, Duggan, Cortesi, & Gasser, 2013)

Teachers and parents both say helping students become more engaged and active in their own learning is



a goal, and that technology can offer real-time feedback, provide hands-on learning, help differentiate learning for students, and connect them to the real world (LEAD Commission, 2012). Yet the majority of teachers don't believe they receive the training they think they need to integrate technology into their teaching (Hart, 2012).

INTEGRATING TECHNOLOGY

Glenn Maleyko, human resources director for the Dearborn (Mich.) Public Schools, takes a "no excuses" approach toward integrating technology into the classroom. He sees devices such as tablets and web-connected phones as today's version of the chalkboard and textbook.

Maleyko was a teacher in the 1990s at Salina Intermediate School when he and colleague Bob Attee became

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interested in finding ways to excite and motivate students to learn. The two also were fascinated by technology.

Beginning by attending state technology conferences, Maleyko and Attee developed their skills. When they could, they wrote grants for training. At times, they learned on their own dime. Then, with their principal's support, they taught what they knew to colleagues in their school who were interested. Salina was a challenging school where 97% of students received free or reduced-price lunch and three-fourths were English language learners, so they sought Title I and professional development funding to purchase what equipment they could for the school.

Maleyko became assistant principal and then principal at Salina. Maleyko worked to develop teachers' skills by encouraging them to present their technological knowl-

edge to their colleagues in "technology camps" at the school. Unlike a conference, he opened classrooms for observation so teachers could see how students were using technology. Soon, others from the district and even outside were attending. When teachers didn't have the expertise, Maleyko had students take the lead, sometimes presenting or co-presenting with their teachers at the annual, three-day event.

Maleyko then became a principal in a very different school, one with a higher socioeconomic demographic and no access to Title I funding. He repeated the experience he'd created at Salina, this time by

forming a community committee and getting stakeholders, including the PTA, involved in providing what equipment he could get.

Maleyko had every teacher begin a blog of classroom information, and parents were notified by email each time a teacher posted new information. The art teacher worked with students on animation, posting student work on the Internet.

"By getting people to believe in a vision, by creating a

professional learning community, you can" get technology in play anywhere, Maleyko said. "It's building capacity."

SIX LESSONS FOR CLOSING THE DIGITAL DIVIDE

Maleyko and Pitler suggest six lessons for getting teachers to cross the digital divide and begin using technology in the classroom.

Begin with adult relationships.

Building leaders model learning for other adults in the school, Pitler and Maleyko stressed. Maleyko said his excitement helped shape the vision, but he had to create a culture where everyone was part of the change.

"To convince teachers, the first thing was that they had to believe what I stood for and we had to develop our vision together," Maleyko said. "We developed mutual respect."

Key, Maleyko said, was keeping the vision focused on students and the effect on their learning. He said any of the technology tools the schools adopted supported the school technology committee's goals, which aligned with the school improvement plan.

Start with the trailblazers.

Both Pitler and Maleyko stressed that every school has trailblazers. It's natural to begin with those who have an interest.

Maleyko said, "I think the expertise is there. It may not be fully there, but a few in the building will have an interest. Then they learn it. If you want to learn how to do a blog, for example, browse the web. You just need a couple of people to bring it back and share the knowledge. They just have to have the willingness to learn, the motivation. If they need a little motivation, that's where the leader applies positive pressure."

Maleyko said effectively integrating technology across the curriculum may take three years to get the entire school involved and suggested approaching the process in phases. Identifying and working with trailblazers initiates the change, followed the next year by spreading practices to additional teachers. The last phase involves the leader working with those who are reluctant to adopt new practices.

Focus on the lesson, not the technology.

Teachers need to know not just how to use the technology — the smartphone, document camera, interactive whiteboard, application on the Internet — but how to determine which support the lesson objective. The tools are constantly changing.

Pitler says teachers should not begin to think of technology until they have identified a clear objective for the lesson. Begin by asking, How clear is the learning objective?

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What does it mean to integrate technology?

"Integration is not the use of managed instructional software, where a computer delivers content and tracks students' progress. Integration is not having students go to a computer lab to learn technical skills while the classroom teacher stays behind to plan or grade papers. Integration is not using the Internet to access games sponsored by toy manufacturers or popular television shows. Integration is not using specialty software for drill and practice day after day. Integration does not replace a teacher with a computer.

"Integration is when classroom teachers use technology to introduce, reinforce, extend, enrich, assess, and remediate student mastery of curricular targets."

Source: Hamilton, B. (2007). *IT's elementary! Integrating technology in the primary grades.* Washington, DC: ISTE.

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What is the target? Pitler said. Then the objective should be in writing for students to see.

He said technology can support lesson objectives when, for example, teachers use online surveys to determine what students already know before they begin a lesson, help students use graphic organizers to map their objectives and learning progress, and teachers find web-based resources to create a student learning assessment.

Recognize that everyone is a learner.

Don't know how to use Google docs? Want to Skype with a scientist hundreds of miles away, but unsure how to connect? A student likely will know how and be willing to help, Pitler said. Students also may help by understanding what tools can support the lesson, helping teachers envision a new landscape for learning.

"The kids are experienced in the technology. They are used to (glitches) and it doesn't bother them," Pitler said. "Teachers need to understand that their role is to be educational facilitators of learning, to go change the paradigm for students to be creators, for students to learn how to learn, and allow kids to bring their personal learning networks into the classroom."

Use what you have.

Maleyko said the key is using what is available. "Even if we had just had a monitor in the room, how do we use that? Do we use video streaming? Everybody has access to the Internet. How do you use that? You might not have a set of computers in your room, but what resources *do* you have? At Salina we didn't have a lot, but the question was, What are you going to do with what you do have?"

Districts across the country are experimenting with ways to provide 1-to-1 technology to students. While some are finding ways to purchase technology, such as a tablet or laptop for every student in certain grades, others are experimenting with making use of what students own and can bring to class.

For educators worried that students from lower socioeconomic backgrounds would put some schools at a disadvantage, a *New York Times* article points out an inverse relationship between having technology and income (Richtel, 2013).

And, Pitler points out, "Whatever device they have can add to the mix."

Find a personal learning network.

"Teachers are finally realizing the power of social networking," Pitler said. District policy needs to follow. Facebook and Twitter, he said, provide opportunities to share ideas with educators all over the nation and world.

He said a Twitter #edchat one recent night included a hundred or more educators discussing grading practices over an hour. He follows education policy and research through his Twitter networks. "I get answers within hours," he said.

Maleyko said he regularly turns to social network sites in his current role as human resource director. He's connected to others in the same job within the county and farther afield and relies on their knowledge when he has questions, wants to test a theory, or just wants to know how other districts do things. "I'm using my colleagues' resources," he said in a sort of human search engine.

CONCLUSION

Learning to use technology to support classroom instruction will be an ongoing issue for educators, Pitler said.

"Technology professional development is, What are you doing different in the classroom and how is technology enabling that?" he said. And while ever-evolving technology can be hard to keep up with, it's a necessary aspect of today's learning. Pitler advises a Nike approach to integrating technology. "Just get out there and do it. Don't worry about not being good at it."

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Learning Forward BELIEF

All educators have an obligation to improve their practice.

6 lessons for integrating technology into learning

In “Crossing the digital divide” (see p. 1), Glenn Maleyko and Howard Pitler shared six lessons for getting teachers to begin using technology in the classroom. Use these questions individually or in groups to explore how to apply these lessons to your school or district.

BEGIN WITH ADULT RELATIONSHIPS.

Successful change leaders model learning for other adults in the school, work to shape a shared vision, and create a culture where everyone is part of the change.

How can you keep the vision for technology integration focused on student success?

How can the technology integration goals better align with the school’s improvement plan?

How can you share your vision for technology integration?

How can building leaders model learning for other adults in the school?

START WITH THE TRAILBLAZERS.

Take advantage of those in the buildings who have an interest in learning new technology and sharing it with others.

Who in your context is an early adopter of new technologies and eager to share with others?

Who in your building or district has an interest in sharing the vision for technology?

Who is best positioned to spread technology practices to additional staff and teachers?

FOCUS ON THE LESSON, NOT THE TECHNOLOGY.

Teachers need to know how to determine which technologies support the lesson objective and how they do so.

How can learning objectives be clearly linked to the types of technology available?

Which learning objectives or lessons would best be supported by technology?

Are there places your technology integration could focus less on learning specific programs and more on how to use technology for learning?

RECOGNIZE THAT EVERYONE IS A LEARNER.

Elicit assistance from students who are likely to know how and be willing to help understand what tools can support the lesson.

When and where do your students have the opportunity to be creators in their use of technology?

How can you address any concerns adults may have for a change in the learning paradigm?

USE WHAT YOU HAVE.

Experiment with using what students own and can bring to class.

In what ways can your students bring their personal technologies into the classroom?

Do your schools have policies that prohibit students from bringing or using their own technology in class?

FIND PROFESSIONAL LEARNING NETWORKS.

Districts need to provide opportunities to share ideas with educators all over the nation and world.

What guidelines can promote teachers' learning through digital learning networks?

How can your staff use currently established digital conversations, such as Twitter's #edchat, for their professional learning?

Which educators would benefit particularly from connections that extend beyond school or district boundaries?

What other social networks can connect teachers and staff to others in the same job?

How can your district develop guidelines for offering continuing education credits for nontraditional, technology-based learning?

Staff technology survey

Gather staff and educator perspectives on integrating technology into learning with this assessment. Use the results to find trends or patterns and for help with implementation planning.

CURRENT TECHNOLOGY

I have adequate learning opportunities or support to help integrate technology in my teaching.

Disagree Somewhat disagree Not sure Somewhat agree Agree

I currently have access to technology that offers students:

• Real-time feedback

Disagree Somewhat disagree Not sure Somewhat agree Agree

• Hands-on learning

Disagree Somewhat disagree Not sure Somewhat agree Agree

• Differentiated learning

Disagree Somewhat disagree Not sure Somewhat agree Agree

• Connections to the real world

Disagree Somewhat disagree Not sure Somewhat agree Agree

What technology-based professional learning networks are you already a part of?

What technology-based professional learning networks would you like to be a part of?

TECHNOLOGY CULTURE

I have opportunities for classroom observations to see how students are using technology in other classes or settings.

Disagree Somewhat disagree Not sure Somewhat agree Agree

The school's integration of technology aligns with the school's improvement plan.

Disagree Somewhat disagree Not sure Somewhat agree Agree

My school's culture is focused only on technology that improves student success.

Disagree Somewhat disagree Not sure Somewhat agree Agree

KNOWLEDGE OF TECHNOLOGY

I have a clear understanding of the technology that is currently available to me.

Disagree Somewhat disagree Not sure Somewhat agree Agree

It is clear how the technology currently available to me supports learning objectives.

Disagree Somewhat disagree Not sure Somewhat agree Agree

It is clear how the technology available to me allows students to create learning.

Disagree Somewhat disagree Not sure Somewhat agree Agree

What technology would you like to learn more about?

What technologies would you like to see made available in schools, and how would they support learning?

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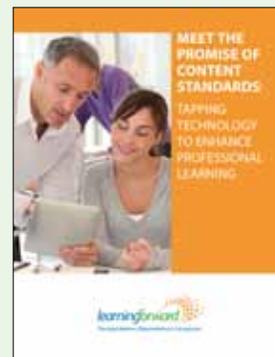
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Additional resource on technology and Common Core implementation

MEET THE PROMISE OF CONTENT STANDARDS:
TAPPING TECHNOLOGY TO ENHANCE PROFESSIONAL
LEARNING

More stakeholders are turning to technology to advance the professional learning required to support new standards and evaluation systems. Yet how technology is used will determine its potential to influence educator practice and results for students. This brief outlines how technology can enhance professional learning, offers examples of how technology is being used to meet the demand generated by Common Core standards, provides guidelines for selecting and using technology as a resource for professional learning, and identifies common challenges and ways to avoid them.



Available at www.learningforward.org/docs/default-source/commoncore/tpltappingtechnology.pdf

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